

npnerbe plus

plastic technology for medicine laboratory research and science

Product Catalogue



37 YEARS

Quality is our commitment

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Prologue

Company Profile

Laboratory disposables are used in all areas of medical, biochemical and biological laboratories to ensure analytical and hygienic safety today. Economical serial production has significantly contributed to a steady decline in costs.

Constant advancements in thermoplastic materials, as well as the optimization of their disposal have turned them into an irreplaceable material, especially under the aspects of environmental protection and resource conservation.

Supplying laboratories with closed systems, from specimen collection to its disposal, will be the task of future innovations.

This development has been actively influenced during the past 37 years by **nerbe plus** GmbH.

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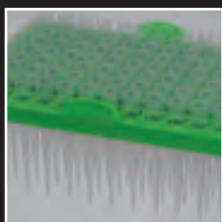
Our associated company, the DR. FRITZ NERBE OHG, a research and development company for laboratory innovations, develops innovative ideas from daily laboratory practice and turns them into marketable products.

In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents.

In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

nerbe plus GmbH was founded in Maschen near Hamburg in 1976. In the course of its steady expansion the company moved into new premises in

Winsen/Luhe in 1992. Since its foundation, **nerbe plus** GmbH has contributed to the establishment of high quality laboratory disposables by developing, manufacturing and selling them in all areas of medical, biochemical and biological laboratories. Further, **nerbe plus** GmbH constantly seeks to broaden its product range by taking innovative ideas from daily practice and developing them into marketable products. The continual growth of **nerbe plus** GmbH not only benefits from the important role it plays on its home market but also due to the keen marketing approach to enter foreign markets with innovative products. These efforts have meanwhile lead to about 30% of the company's sales being generated through exports. As a result, **nerbe plus** GmbH maintains long-lasting business relationships worldwide, to customer located in all European and Arabic countries as well as in Asia, Australia, New Zealand, Japan and the USA.



Over 37 years of

- ... developing state-of-the-art laboratory disposables
- ... manufacturing laboratory disposables from inert raw materials with high precision moulds
- ... preparation of laboratory disposables for the rationalization of analytical processes
- ... providing a comprehensive, quality-controlled program of plastic disposables for all areas of application

Development of the Quality Management System



Our quality policy is based on an extensive definition of the term „quality“. We do aim for the consistently highest possible product quality, while also our internal company processes are tightly controlled, and subject to fixed specified quality standards.

In this context special attention is given to all those activities at the direct interfaces to all our clients of **nerbe plus GmbH**, and the production line.

The quality management system of **nerbe plus GmbH** is based on the 8 QMS elements of DIN EN ISO 13485 under consideration of the requirements according to

directive 93/42 EWG (medical device directive).

The relative official certification of the company forms the basis for quality and trust

These are our principles with which we have aimed to win your confidence and trust in the past, and which we will be committed to also in the future. We will continue in our efforts to maintain highest quality standards also in view of the up-dated state-of-art of science and technology.



The quality of **nerbe plus gmbH** is based on the following principles:

Quality is the prime task of the management, all our employees, and departments of **nerbe plus GmbH** to ensure among each other, and in close cooperation with our appointed quality manager alike.

Pro-active quality management means setting realistic forecasts and implementing the goals set in accordance with schedules agreed upon.

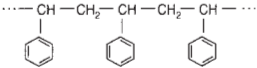
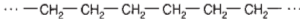
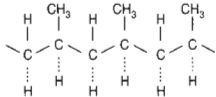
Our common objective target is to prevent any possible quality problem and related additional cost, instead of later corrective action.

The principle of constant feedback is applied in all directions.

The main goal remains the desire for a continuously improved quality and customer satisfaction, an early recognition of possible mistakes and active measures to avoid their recurrence by consequently targeted and planned action.

Quality must be verifiable and comprehensible Detailed documentation, monitored quality audits, and systematic evaluations give proof of all quality-related issues and processes.

Technical, physical data and characteristics of: polystyrene, polyethylene (high and low density) and polypropylene

	Polystyrene	Polyethylene		Polypropylene
		low density	high density	
Chemical formula				
Molecular weight	from 150,000-250,000 fluctuating up to 800,000	~ 50,000 and more	from 50,000 up to over 1,000,000	between 300,000 and 750,000
Structure	amorphous, fiber-shaped, non-networked macromolecules with phenyl groups of atactic structure	partially crystalline (crystallinity grade ~ 55 %) high level of branching of macromolecules	partially crystalline (crystallinity grade ~ 80 %) linear macromolecules	partially crystalline (crystallinity grade ~ 60-70 %) non-branching macro- molecules with CH3- groups of isotactic structure
General characteristics	transparent as glass bright as water, solid, stiff, but brittle and fragile, hydrophobic, can easily be charged electrostatically	slightly transparent (translucent), light, stiff, ductile, unbreakable, hydrophobic, can easily be charged electrostatically harder, stiffer and more heat- and chemical-resistant than low-density polyethylene		translucent, high break strength, stiff, resistant to deformation, autoclavable
Flammability	flammable	flammable	flammable	flammable
Thermal resistance				
Sagging point	80–95 °C	110–115 °C	125–135 °C	160–165 °C
Short-term heat resistance	75–80 °C	80–90 °C	90–120 °C	140–145 °C
Continuous operating temperature	60–70 °C	60–75 °C	70–80 °C	100 °C
Low temperature resistance	up to -40 °C	up to -80 °C		up to -190 °C
Transparency				
visible light from 400-800 nm	90 % transparent	translucent		translucent
from 300-400 nm	increasing absorption			
Ultraviolet light	absorption band at 260 nm			
The thermal resistance is solely based on the material itself. The range of application of manufactured products depends on their respective construction and material thickness. All data are based on experience and without any responsibility taken for the correctness of this information.				

List of resistances for:
polystyrene, polyethylene
(low and high density) and polypropylene
- against chemical compounds -

The data in this list of resistances are just for reference. All data are recommendations.

Legend	International symbols	Plastic	Some trade names
- = resistant	PS	Polystyrene	Hostyren, Vestyron
! = conditionally resistant	HDPE	Low-density polyethylene	Hostalen, Vestolen, Lupolen
/ = non-resistant	LDPE	High-density polyethylene	Lupolen, Alathen, Alkathene
; = and warm-deformed spots, not applicable to welded joints			
dil. = diluted	PP	Polypropylene	Hostalen PP
sat. = saturated			Vestolen P, Luparen
min. = minimal			
std. = standard concentration			

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Acetaldehyde	40	40	-	!	/	-
Acetone		20	-	-	-	/
		60	-	-	!	/
Acetophenone		20	!	!	-	-
Ethanol (Ethyl alcohol)	96	20	-	-	-	-
Ether (Diethyl ether)	100	60	-	-	-	-
Essential oils		20	!	!	/	-
Ethyl acetate	100	20	-	-	!	/
		60	-	-	!	/
Ethyl alcohol	96	20	-	-	-	-
		60	-	-	-	-
Ethyl alcohol (+ 2 % of toluene)	96	20	-	!	!	!
Ethylene chloride	100	20	-	!	!	/
		60	!	!	/	/
Ethylene glycol		20	-	-	-	-
		60	-	-	-	-
Caustic potash		20	-	-	-	-
		60	-	-	-	-
Caustic soda (Sodium hydroxide)		20	-	-	-	-
		40	-	-	-	-
		60	-	-	-	-
Accumulator acid		20	-	-	-	-
		60	-	-	-	-
Allyl alcohol	96	20	-	-	-	-
		60	-	-	-	-
Aluminum acetate		20	-	-	-	-
		60	-	-	-	-
Aluminum chlorate		20	!	!	-	-
		60	!	!	-	-
Aluminum chloride	dil	20	-	-	-	-
		60	-	-	-	-
	sat	20	-	-	-	-
		60	-	-	-	-
Aluminum fluoride		20	-	-	-	-
		60	-	-	-	-
Aluminum sulfate	dil.	20	-	-	-	-
		60	-	-	-	-

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
	sat.	20	-	-	-	-
		60	-	-	-	-
Formic acid	50	20	-	-	-	-
		60	-	-	-	-
	100	20	-	-	-	-
		60	-	-	-	-
Ammonia, gaseous	100	20	-	-	-	-
		60	-	-	-	-
Ammonium hydroxide	sat.	20	-	-	-	-
		60	-	-	-	-
Ammonium carbonate	dil.	20	-	-	-	-
hydrous		60	-	-	-	-
Ammonium fluoride	20	20	-	-	-	-
		60	-	-	-	-
Ammonium nitrate	dil.	20	-	-	-	-
		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Ammonium phosphate	dil.	20	-	-	-	-
hydrous		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Ammonium sulfate	dil.	20	-	-	-	-
hydrous		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Ammonium sulfide	dil	20	-	-	-	-
hydrous		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Amyl acetate	100	20	-	-	/	/
Amyl alcohol		20	-	-	-	-
		60	-	!	-	-
Amyl chloride		20	-	-	-	-
		60	-	!	-	-
Aniline, pure	100	20	-	-	!	/
		60	-	!	!	/
Aniline, hydrous	sat.	20	!	!	!	/
		60	!	!	!	/
Anone	100	-	/	/	/	/

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Antimony chloride	sat.	20	-	-	-	-
Malic acid	50	20	-	-	-	-
		60	-	-	-	-
Arsenic acid and arsenic pentoxide		20	-	-	-	-
		60	-	-	-	-
	80	20	-	-	-	-
		60	-	-	-	-
Ascorbic acid (Vitamin C)	any	20	-	-	-	-
		60	-	-	-	-
Barium salts	sat.	20	-	-	-	-
		60	-	-	-	-
Benzaldehyde	100	20	!	-	-	-
		60	!	!	-	-
Benzine (aliphatic hydrocarbon compound)	100	20	!	-	/	/
		60	/	!	/	/
Petrol, regular		20	!	-	/	/
DIN 51635		60	!	!	/	/
Petrol, supreme		20	/	-	/	/
		60	/	!	/	/
Benzoic acid	any	20	-	-	-	-
		60	-	-	-	-
Benzene	100	20	!	!	/	/
		60	/	!	/	/
Succinic acid	sat.	20	-	-	-	-
		60	-	-	-	-
Beer		20	-	-	-	-
Hydrogen, cyanide		40	-	-	-	-
Bisulfite lye, containing SO ₂	sat.	20	-	-	!	!
		60	-	-	!	!
Lead acetate (lead sugar)	sat.	20	-	-	-	!
		60	-	-	-	!
Sodium hypochlorite solution common (12.5 % of active chlorine, Javel water)		20	-	-	-	!
		60	!	!	!	!
Lead nitrate	30	20	-	-	-	-
		60	-	-	-	-
Borax, hydrous	dil.	20	-	-	-	-

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Boric acid	sat.	60	-	-	-	-
Bromine		20	/	/	/	/
Bromide acid	10	20	!	!	!	!
Hydrobromic acid	50	60	/	/	/	/
Butyl acetate	100	20	/	!	/	/
Butyl alcohol (Butanol)	100	60	-	-	-	-
Butyl glycol		20	-	-	-	-
Butyl phenol	100	60	-	-	-	-
butyl phthalate	100	20	!	-	-	-
		60	!	-	-	-
Calcium chloride	dil.	20	-	-	-	-
	sat.	60	-	-	-	-
Calcium hypochlorite	sat.	60	-	-	-	-
Calcium nitrate 50 %	sat.	20	-	-	-	-
Calcium phosphate		60	-	-	-	-
Chlorine, liquid		20	/	/	/	/
Chlorine, gaseous, dry	100	60	/	!	/	/
Chlorine, gaseous, wet	0,5	20	!	!	!	!
Chloroethanol		60	/	/	/	/
Chlorobenzene		20	!	!	/	/
Chloroacetic acid (mono)	100	60	-	-	!	/
Chloroform	100	20	/	/	/	/
Chlorosulphonic acid	100	60	/	/	/	/
Chlorine water	sat.	20	/	/	/	/
Chloralum, hydrous	dil.	60	-	-	-	-
	sat.	20	-	-	-	-
Chromic acid	50	20	-	-	-	/
	80	60	/	/	/	/
Chromosulphuric acid 15/35/50		20	/	/	/	/
Potassium cyanide, hydrous	sat.	60	/	/	/	/
	100	20	-	-	-	-
Cyclohexane		60	-	-	-	-
Cyclohexanol	100	20	-	-	/	!
		60	!	-	/	!
Cyclohexanone	100	20	-	-	/	/
		60	!	!	/	/
Dekahydronaphthalene (Dekaline)		20	!	-	-	-
Dibutyl phthalate	100	60	!	!	-	-
Ethylene dichloride	100	20	!	/	-	-
		60	!	/	-	-
Fertilizer salt, hydrous	10	20	-	-	-	-
	sat.	60	-	-	-	-
		20	-	-	-	-

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Ferric chloride, hydrous	10	20	-	-	-	-
	sat.	60	-	-	-	-
Glacial acetic acid	100	20	-	-	!	-
		60	!	!	!	-
Vinegar (wine vinegar)		20	-	-	-	-
Acetic acid	25	60	-	-	!	-
		60	-	-	!	-
Acetic acid ethyl ester	100	20	-	-	!	-
Acetic acid anhydride	100	60	!	!	/	-
Potassium ferricyanide	dil.	20	-	-	-	-
	sat.	60	-	-	-	-
Potassium ferrocyanide	dil.	20	-	-	-	-
	sat.	60	-	-	-	-
Hydrofluoric acid	40	20	-	-	-	!
		60	-	-	-	!
	60	20	-	-	-	!
		60	!	!	!	!
	70	20	-	-	-	!
Formaldehyde	10	60	!	!	!	!
	40	20	-	-	-	!
Photo developer		60	-	-	-	!
Photo fixing bath		40	-	-	-	-
Tannic acid	10	20	-	-	-	!
		60	-	-	-	!
Glucose, hydrous	sat.	20	-	-	-	-
Glycerin	any	60	-	-	-	-
Glycol	100	20	-	-	!	-
		60	-	-	!	-
Urea	30	20	-	-	-	-
Fuel oil		60	-	-	-	-
Hexane	100	20	-	-	-	-
		60	!	!	-	-
Hydroquinone		20	/	/	-	-
		60	/	/	-	-
Hydrosulfite	dil.	20	-	-	-	!
		60	-	-	-	!
Isooctane	100	20	-	-	-	-
		60	!	!	-	-
Isopropyl alcohol (Isopropanol)		20	-	-	-	-
		60	-	-	-	-
Javel water	common	20	-	-	-	-
		50	!	!	-	-
Iodine tincture	std.	20	-	-	!	!
		60	!	!	/	!
Caustic potash	40	20	-	-	-	-
		60	-	-	-	-

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Potassium acetate, hydrous	any	20	-	-	-	-
Potassium bichromate	40	60	-	-	-	-
Potassium borate	1	20	-	-	-	-
Potassium bromate	10	60	-	-	-	-
Potassium bromide, hydrous dil.		20	-	-	-	-
	sat.	60	-	-	-	-
Potassium carbonate, hydrous	sat.	20	-	-	-	-
Potassium chlorate, hydrous	sat.	60	-	-	-	-
Potassium chloride, hydrous	dil.	20	-	-	-	-
	sat.	60	-	-	-	-
Potassium chromate	40	20	-	-	-	-
Potassium Iron(III) Cyanide, hydrous		60	-	-	-	-
Potassium fluoride, hydrous	sat.	20	-	-	-	-
Potassium hydroxide	60	20	-	-	-	!
Potassium nitrate, hydrous	sat.	60	-	-	-	-
Potassium permanganate	6	20	-	-	-	-
Hydrofluoric silica	30	60	-	-	-	-
Silica, hydrous	any	20	-	-	-	-
Sodium chloride, hydrous	sat.	60	-	-	-	-
Sodium chloride, hydrous	sat.	20	-	-	-	-
Carbonic acid, dry	100	60	-	-	-	-
Carbonic acid, wet	any	20	-	-	-	-
Nitro hydrochloric acid		60	/	/	/	/
Cresol		20	-	-	-	-
		60	!	-	-	-
Copper nitrate, hydrous	30	20	-	-	-	-
Copper sulfate, hydrous	dil.	60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Linseed oil		20	-	-	-	!
		60	-	-	-	!
Lysol		20	-	-	-	!
		60	!	!	-	!
Magnesium salts hydrous	dil.	20	-	-	-	-
	sat.	60	-	-	-	-
Methyl alcohol (Methanol)	95	20	-	-	-	!
Methyl ethyl ketone	95	60	-	-	-	!
Methylene chloride	100	20	-	-	-	/
		60	/	/	/	/

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Lactic acid	10	20	-	-	-	-
		60	-	-	-	-
	50	20	-	-	-	-
		60	-	-	-	-
	90	20	-	-	-	-
		60	-	-	-	-
Petroleum (non-aromatic)		20	-	-	!	!
		60	!	!	!	!
Sodium salts see sodium chloride						
Sodium hydroxide (Caustic soda)	40	20	-	-	-	-
		60	-	-	-	!
Sodium carbonate (Soda)	dil.	20	-	-	-	!
		60	!	-	-	!
	sat.	20	-	-	-	!
		60	-	-	-	!
Sodium hydroxide solution	up to	20	-	-	-	-
	40	60	-	-	-	-
	60	20	-	-	-	-
		60	-	-	-	-
Nickel sulfate, hydrous	dil.	20	-	-	-	-
		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Nitrobenzene	100	20	-	-	-	!
		60	!	!	-	-
Nitro toluene		20	-	-	-	-
		60	-	-	-	!
Oils, essential	100	20	!	!	!	!
		60	!	!	!	!
Oils, vegetable, animal	100	20	-	-	-	!
		60	!	!	!	!
Oleic acid	common	20	-	-	-	!
		60	!	!	!	!
Oleum	10	20	/	/	/	!
		60	/	/	/	!
Oxalic acid	dil.	20	-	-	-	!
		60	-	-	-	!
	sat.	20	-	-	-	-
		60	-	-	-	-
Ozone (0.5 ppm)		20	!	!	!	!
		60	/	/	/	-
Phenol, hydrous	up to	20	-	-	/	/
	90	60	-	-	/	/
Phosphates	any	20	-	-	-	-
		60	-	-	-	-
Phosphoric acid	30	20	-	-	-	-
		60	-	-	-	-
	40/80	20	-	-	-	-
		60	-	-	-	!
	95	20	-	-	/	/
		60	!	!	/	/
Perchloric acid, hydrous	20	20	-	-	-	-
		60	-	-	-	-
	50	20	-	-	-	-
		60	!	!	-	-
	70	20	!	!	-	-
		60	/	/	-	-
Petrol ether	100	20	-	-	-	/
		60	-	!	!	/

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Petroleum	100	20	-	-	-	/
		60	!	!	/	/
Potash (Potassium carbonate)		20	-	-	-	-
Propionic acid	50	20	-	-	-	-
		60	-	-	-	-
	100	20	-	-	-	-
		60	!	/	-	-
Pyridine	100	20	!	/	-	-
		60	/	!	-	-
Mercury	100	20	-	-	-	-
		60	-	-	-	-
Mercuric chloride		20	-	-	-	-
		60	-	-	-	-
Salicylic acid		20	-	-	-	-
		60	-	-	-	-
Nitric acid	50	20	-	-	-	/
		60	/	!	/	/
	70	20	/	/	/	/
		60	/	/	/	/
	98	20	/	/	/	/
		60	/	/	/	/
Hydrochloric acid	up to	20	-	-	-	!
	30	60	-	-	-	!
	over	20	-	-	-	/
	30	60	-	-	-	/
Oxygen	any	20	!	!	-	-
		60	!	!	-	-
Sulfur dioxide dry	any	20	-	-	-	-
		60	-	-	-	-
Sulfur dioxide wet	any	20	-	-	-	-
		60	-	-	-	-
Carbon disulfide	100	20	!	-	-	-
		60	/	!	-	-
Sodium disulfide hydrous	100	20	!	!	/	/
	dil.	20	-	-	-	-
		60	-	-	-	-
		20	-	-	-	-
		60	-	-	-	-
Sulfuric acid, hydrous	40	20	-	-	-	-
		60	-	-	-	-
	70	20	-	-	-	-
		60	!	!	-	-
	98	20	!	!	/	/
		60	/	/	/	/
Hydrosulfide	min.	20	-	-	-	-
		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Soap solution	conc.	20	-	-	-	-
		60	-	-	-	-
Silver nitrate, hydrous	up to 8	20	-	-	-	/
		60	-	-	-	/
Silicon oils		20	-	-	-	!
Spindle oil		20	-	-	-	!
		60	!	!	-	-
Stearic acid	100	20	-	-	-	-
		60	!	!	-	-
Sulfochloride		20	/	/	/	/
		60	/	/	/	/

Agent	Conc. %	Temp. °C	PP	HDPE	LDPE	PS
Sebum	100	20	-	-	-	-
Turpentine oil	100	20	/	-	-	/
		60	/	/	!	/
Petroleum spirit		20	-	-	-	-
		60	/	/	-	-
Ethylene tetrachloride	100	20	!	!	/	/
		60	/	/	/	/
Carbon tetrachloride	100	20	!	!	/	/
		60	/	/	/	/
Tetra line	100	20	/	/	/	/
		60	/	/	/	/
Thionyl chloride	100	20	/	/	/	/
Toluene	100	20	!	!	/	/
		60	/	/	/	/
Transformer oil	100	20	-	-	!	-
		60	/	!	-	-
Triethanolamin	100	20	-	-	-	-
		60	-	-	-	-
Tributyl phosphate		20	-	-	-	-
		60	-	-	-	-
Trichloroethylene	100	20	!	!	/	/
		60	/	/	/	/
Trichloroethylphosphate		20	-	-	-	-
Trichloroacetic acid	50	20	-	-	-	-
		60	-	-	-	-
	100	20	-	-	-	-
		60	-	-	/	-
Perchloric acid hydrous	dil.	20	-	-	-	-
		60	!	!	-	-
	sat.	20	-	-	-	-
		60	!	!	-	-
Vaseline		20	!	!	-	-
		60	!	!	-	-
Vinyl acetate	100	20	/	/	/	/
		60	/	/	/	/
Water		20	-	-	-	-
		60	-	-	-	-
Hydrogen peroxide	30	20	-	-	-	!
		60	-	-	-	!
	90	20	-	-	-	!
		60	/	/	-	!
Tartaric acid	dil.	20	-	-	-	-
		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Xylene	100	20	/	/	!	/
Zinc chloride, hydrous	dil.	20	-	-	-	-
		60	-	-	!	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Zinc sulfate, hydrous	dil.	20	-	-	-	-
		60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-
Citric acid	up to	20	-	-	-	-
	10	60	-	-	-	-
	sat.	20	-	-	-	-
		60	-	-	-	-

Hygiene standard of our disposable products:

“Sterile, aseptic, clean etc”: It can be difficult to describe the sanitary level of our products by means of the usual terms and standard definitions, when they exist. As a result, we have drawn up this document to clarify these concepts in the light of our knowledge and the current legislation.

OFFICIAL DeFINITIONS

There is only one normative definition to date: the concept of sterility. The word “sterile” is defined in the standards DIN EN ISO 14937. According to standard DIN EN ISO 14937, sterile is “the condition which is free of viable micro-organisms.” Standard DIN EN ISO 14937 specifies that “the inactivation of a micro-organism culture by the physical or chemical agents used for sterilisation can frequently be represented by an exponential law; inevitable, this means that there is finite probability that a micro-organism will survive, regardless of the effectiveness of the treatment used.” “The sterility of a given product must be defined in terms of the probability of the survival of micro-organisms.” DIN EN ISO 14937 states that “in order for a medical device to be labelled as sterile, the probability that a viable organism is presented on the device must be less than or equal to 1×10^{-6} , i. e. a SAL(1) greater or equal to 6.”

No official definitions or qualifying specifications exist for the other terms, such as aseptic, clean etc. It is this very absence of an official definition which causes a problem and which hinders the effective assessment of products.

nerbeplus DeFINITION:

nerbe plus has created a classification hierarchy for its products based on the production methods, the manufacturing environments and the risks associated with the products’ uses.

Backed up by more than 37 years of experience and in line with the company’s strategy of closely paying attention to its clients, we have defined 5 sanitary level categories:

STERILE, IONISED, ISO5 ASEPTIC, ASEPTIC and CLEAN. A symbol matching each of these categories and based on the official symbols described in the ISO 15223 and DIN EN ISO 14937 standards has been created. This symbol is shown in the products insofar as this does not hinder their use.

STeRILe

Symbol:



Sanitary risk: SAL ≥ 6 (normative)

Example of products: Petri dishes – Swabs

Sterile products have undergone a sterilisation treatment after production in their final packaging using radiation. This means that they are bombarded with electrons to break down macromolecules, including DNA, and this destroys all microbial life forms. For a product to be classified as sterile, we must be in a position to guarantee a SAL of 6.

To do this, we check that the bioload before sterilisation is low and that the destructive capacity (DRR, Decimal Reduction rate) of the electron beam is at least 10^6 times higher than the initial bioload. The two

checks combined guarantee a **STeRILe** product by parametric release for each sterilisation batch. The official symbol is STERILE R. The “R” means that sterility was obtained through the use of radiation.

Note: there are other methods of sterilisation, including treatment in an autoclave or treatment by ethylene oxide (STERILE EO). We are currently seeing the limitations of this latter process due to appearance of allergies caused by ethylene oxide residues accidentally present in the products that were sterilised using this method.

IONISeD

Symbol:

IONISED

Sanitary risk: SAL 6

Example of products: Sampling containers – Spreaders – Flasks

The process for **ionised** products is almost the same as for sterile products. The only difference is that we do not know the initial bioload. Therefore, it is not legally possible to guarantee the sterility of the products from normative point of view. Nevertheless, research and our experience have shown that there are no problems associated with the use of an ionised product in a demanding sanitary environment. The majority of our products are treated at 10 Kgray. At this dosage, we have shown a logarithmic decrease of 10 to 13. This means that we can destroy from 10¹⁰ to 10¹³ of the initial bioload. The production method used by nerbe plus involves the fusion of raw

materials at temperatures in excess of 200°C. In any case, the initial bioload is very low.

Note: STERILE and IONISED products carry a label with an ionising treatment indicator. This is a label stating all the traceability information as regards both manufacturing and sterilisation. The centre of the label is detachable and can be used as a certificate. In this way, the end users can paste the certificate onto a logbook instead of laboriously copying out the codes and references.

ISO 5 ASePTIC

Symbol:

ASEPTIC**ISO5**

Sanitary risk: SAL 5

Example of products: Petri dishes

ISO5 Aseptic products are produced in an ISO 5-class filtered and monitored atmosphere (Class 100). This involves the use of an automated machine, almost without any human intervention, which is placed in a closed-off environment where the air is filtered by class-100 filters. These facilities are themselves placed in workshops where the air filtering is in class 100 000 (ISO 7). The purpose of the facility is to limit product recontamination before packing in airtight packaging. In fact, there is no contact outside of the air-filtered area from the point of fusion of the materials at 250°C until the products are packed in sealed

bags. As a result of our strict production conditions and the numerous checks we carry out (for particles and microbiological contamination) the SAL at the end of the production line is between 4.7 and 5.

Note: the concept of STERILE A does not apply to our products. This refers solely to a laminar flow technique for pouring medicinal liquids into containers that are initially sterile. In this case, the concept of Aseptic should not overshadow the word STERILE, which predominates. The final product must have a minimum SAL of 6.

ASePTIC

Symbol:

ASEPTIC

Sanitary risk: SAL 3-4

Example of products: test tubes, sampling containers with cap

ASePTIC products are produced on machines whose at-risks areas have been closed off. The production method for plastic products requires the materials to be fused at temperatures in excess of 200°C. Our organisation allows us to close the container

immediately after it is ejected from the mould. The recontamination time when the product is still open is very short and closed conveyors are used for transfers. The average SAL obtained is in the region of 3 to 4. The recommended use of these products is for non-microbiological testing.

CLeAN

Symbol: **None**

Sanitary risk: SAL < 3

Example of products: sampling containers with spatula – manual series – autoclavable bagging

CLeAN products are manufactured on machines which use manual removal. This classification covers only a very limited portion of our range designed for low-level sanitary applications. With manual intervention and without a post – production sterilisation treatment, it is not possible to guarantee a specific sani-

tary level. The results of our testing place the SAL in the region of 3. The recommended use of these products is for non microbiological testing.

Note: the company regularly conducts hygiene awareness campaigns for its staff and offers training for personnel in the use of the products.

Purpose recommendations

The following table summarizes the principal recommendation for the use of our products according to their sanitary level. The classification takes into account the risk of interference on quantitative research by enumerations and for qualitative research. Qualitative Analysis: without enumeration, for insulation and microbiological identification (on selective medium).

USeS	sterilR	ionised	aseptic ISO 5	aseptic
Analyse without microbiological character	X	X	X	R
Microbiological analysis with high suspected microse level	O	O	R	R
Microbiological analysis with medium suspected microbial level (105 CFU)	X	O	R	O
Microbiological analysis on very selective media (pathogenic research: Salmonella, etc.)	O	O	R	R
Microbiological analysis with long incubation	R	R	O	O
Microbiological analysis on non selective media with suspicion of low microbiological level (pasteurisation control)	X	O	O	O
Semi quantitative Analysis	O	O	X	O
Qualitative analysis without enumeration, for microbiological identification (on non selective media)	O	O	O	O
Qualitative analysis without enumeration, for microbiological identification (on non selective media)	X	X	R	O
R Recommended O = Possible (according to the nature and the methods of analysis) X = Non recommended				

Test and centrifuge tubes micro-tubes, cell counter vials

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Test and centrifuge tubes	
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Round bottom tubes (PP)	02.3
Centrifuge tubes	02.4
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Micro rack system	02.7
Caps.	02.8
Cell counter vials	02.9

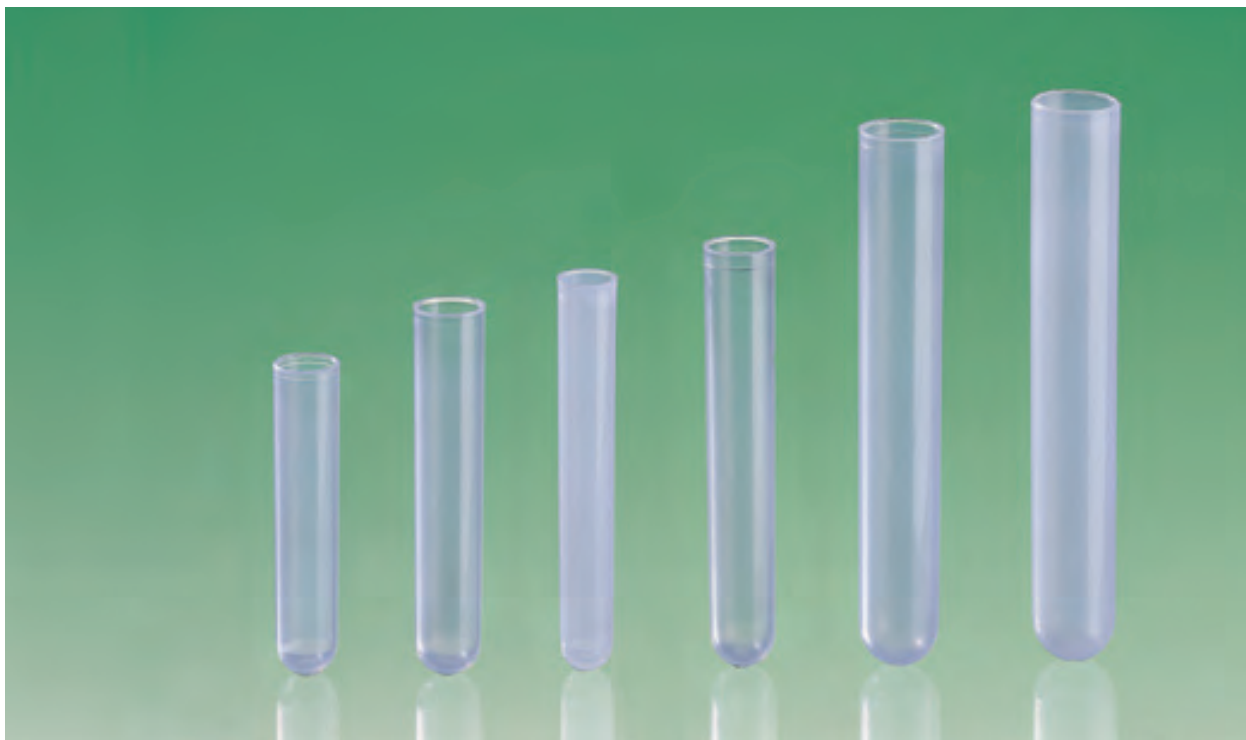


Round bottom tubes (PS)



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks Suitable caps
02-071-0000	PS	8.5 x 41	1	2,500 / 17,500	–
02-081-0000	PS	11 x 42	2	1,500 / 9,000	Cap no. 02-623-0006
02-111-0000	PS	12 x 55	4	1,000 / 5,000	Cap no. 02-633-0000
02-131-0000	PS	12 x 75	4.5	1,000 / 4,000	Cap no. 02-633-0000
02-151-0000	PS	13 x 65	4	750 / 4,500	Cap no. 02-643-0000
02-161-0000	PS	13 x 75	5	500 / 4,000	Cap no. 02-643-0000
02-171-0000	PS	13 x 100	8	400 / 2,400	Cap no. 02-643-0000
02-201-0000	PS	16 x 65	9	500 / 3,000	Cap no. 02-673-0000
02-211-0000	PS	16 x 95	11	250 / 2,000	Cap no. 02-673-0000
02-221-0000	PS	16 x 100	12	1,000 / 2,000	Cap no. 02-673-0000
02-251-0000	PS	16 x 150	20	1,000 / 1,000	Cap no. 02-673-0000
02-271-0000	PS	21 x 96	20	200 / 1,000	Cap no. 02-713-0000

Round bottom tubes (PP)

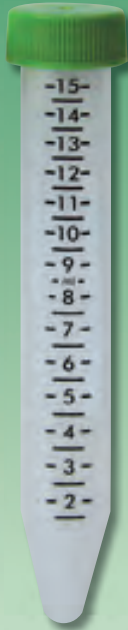


Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks Suitable caps
02-072-0000	PP	8.5 x 41	1	2,500 / 17,500	–
02-082-0000	PP	11 x 42	2	1,500 / 9,000	Cap no. 02-623-0006
02-112-0000	PP	12 x 55	4	1,000 / 5,000	Cap no. 02-633-0000
02-132-0000	PP	12 x 75	4.5	500 / 4,000	Cap no. 02-633-0000
02-152-0000	PP	13 x 65	4	625 / 3,750	Cap no. 02-643-0000
02-162-0000	PP	13 x 75	5	500 / 4,000	Cap no. 02-643-0000
02-172-0000	PP	13 x 100	8	400 / 2,400	Cap no. 02-643-0000
02-202-0000	PP	16 x 65	9	500 / 3,000	Cap no. 02-673-0000
02-212-0000	PP	16 x 95	11	250 / 2,000	Cap no. 02-673-0000
02-222-0000	PP	16 x 100	12	1,000 / 2,000	Cap no. 02-673-0000
02-252-0000	PP	16 x 150	20	1,000 / 1,000	Cap no. 02-673-0000

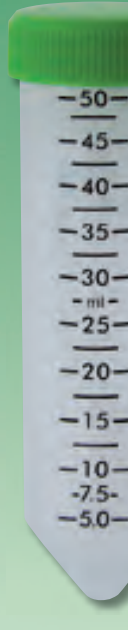
Centrifuge tubes

15 ml and 50 ml



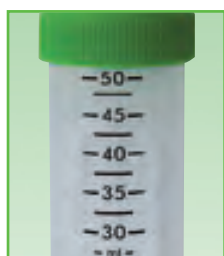


02-502-7001



02-572-7001

- Autoclavable: to 121°C
- Low-temperature resistance: to -80°C
- Centrifugation (RCF):
15 ml to 15.000 g
50 ml to 9.400 g
- Every lot will be tested, certified, is sterile R and free of RNase/DNase, Pyrogen and DNA.
- Hydrophobic, biologically inert surface.
- Produced under clean-room conditions and GMP Regulations.



- Clearly legible and accurate graduation.



- Big white writing area.
- Easy to be marked by common and ball point pens.
- Resistance to alcohol.



- Short screw thread.
- Optimised for single-hand use.
- Rounded Cap edges.

Order no.	Material	Size in mm	Volume in ml	Packing unit bag / carton	Remarks
02-502-7001	PP / PE	17 x 120	15	50 / 500	Conical centrifuge tubes (PP) with green screw-cap (PE), black graduations, white writing area, conical bottom, sterile R
02-572-7001	PP / PE	30 x 115	50	50 / 500	Conical centrifuge tubes (PP) with green screw-cap (PE), black graduations, white writing area, conical bottom, sterile R

Tubes with screw cap

standard hygienic or sterile R



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
02-322-1056	PP	16 x 54	5	500 / 2,500	Flat bottom, screw cap, PE, natural, enclosed
02-352-1000	PP	16 x 100	12	1,000 / 1,000	Screw cap, PE, natural, enclosed
02-352-6000	PP	16 x 100	12	100 / 1,000	Screw cap, PE, natural, fitted, sterile R
02-381-8107	PS	16 x 150	19	125 / 625	Screw cap, PE, red, fitted, sterile R
02-501-2005	PS	17 x 120	15	150 / 750	Screw cap, PE, blue, fitted
02-501-6005	PS	17 x 120	15	150 / 1,050	Screw cap, PE, blue, fitted, sterile R
02-502-7001	PP	17 x 120	15	50 / 500	Screw cap, PE, green, fitted, sterile R
02-552-1000	PP	25 x 107	30	500 / 500	Screw cap, PE, natural, enclosed
02-552-6000	PP	25 x 107	30	100 / 500	Screw cap, PE, natural, fitted, sterile R
02-572-7001	PP	30 x 115	50	50 / 500	Screw cap, PE, green, fitted, sterile R
02-582-1001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, fitted, skirted
02-582-6001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, fitted, sterile R, skirted

Conical based tubes

standard hygienic or sterile R



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
02-401-0000	PS	11 x 75	4	100 / 5,000	Cap no. 02-633-0000
02-411-0000	PS	12 x 75	4,5	525 / 5,250	Cap no. 02-633-0000
02-412-0000	PP	12 x 75	4,5	750 / 5,250	Cap no. 02-633-0000
02-421-0000	PS	16 x 105	12	2,000 / 2,000	Cap no. 02-673-0000
02-501-2005	PS	17 x 120	15	150 / 750	Screw cap, PE, blue, fitted
02-501-6005	PS	17 x 120	15	150 / 1,050	Screw cap, PE, blue, fitted, sterile R
02-502-7001	PP	17 x 120	15	50 / 500	Screw cap, PE, green, fitted, sterile R
02-531-2006	PS	22 x 90	30	100 / 1,000	Screw cap, PE, white, fitted
02-531-6006	PS	22 x 90	30	100 / 1,000	Screw cap, PE, white, fitted, sterile R
02-552-1000	PP	25 x 107	30	500 / 500	Screw cap, PE, natural, enclosed
02-552-6000	PP	25 x 107	30	100 / 500	Screw cap, PE, natural, fitted, sterile R
02-572-7001	PP	30 x 115	50	50 / 500	Screw cap, PE, green, fitted, sterile R
02-582-1001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, fitted, skirted
02-582-6001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, fitted, sterile R, skirted

Micro rack system

RNase-, DNase-, DNA- and pyrogen-free



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
02-062-0100	PP	8.8 x 45	1.1	960 / 9,600	loose in bag
02-062-0300	PP	8.8 x 45	1.1	960 / 4,800	8 x 12-mm tubes in a rack
02-062-1100	PE	8.8 x 45	–	120 / 4,200	120 strips with 8 caps
02-062-1800	PP	8.8 x 45	1.1	120 / 600	120 strips with 8 tubes

The micro rack system contains racks with caps made of PP, 96 tubes made of PP, with dimensions of 8.8 x 45 mm and a volume of 1.1 ml. The caps closes tightly. The system is completely autoclavable at 121 °C and 15 psi. Fillable with multi-channel pipettors and pipettor systems. Sealable with 8-fold sealing strips of 96 mats. The dimensions are in accordance with the standard microtest plate format. The racks are suitable for manual and automated filling. The positions are coded alphanumerically for easy identification of the specimens. The caps are furnished with condensation rings to prevent cross-contamination.

Preferred area of application:

Storage of specimen of all kinds, also at -80 °C. As reservoir for dilution series, for long-term storage to retain samples and for screening in machines (HTS). Dimensions of the rack are in accordance with the SBS standard.

Caps



Order no.	Material	Suitable for tube size	Color	Packaging unit Polybag / carton	Remarks
02-623-0006	PE	11 x 42 11 x 70	white	5,000 / 20,000	Pressure plug
02-633-0000	PE	12 x 55 12 x 70 12 x 75	natural	1,000 / 20,000	Ribbed plug with high grip
02-643-0000	PE	13 x 65 13 x 75 13 x 100	natural	2,500 / 15,000	Ribbed plug with high grip
02-673-0000	PE	16 x 65 16 x 95 16 x 100	natural	1,000 / 10,000	Ribbed plug with high grip
02-713-0001	PE	21 x 96	red	1,000 / 6,000	Pressure plug

Cell counter vials



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag/ carton	Remarks
02-801-2000	PS	22 x 45	15	500 / 2,000	dust-free capped, suitable for cell counter from Labora, Contraves Hellige, Brand, cap assembled
02-811-2000	PS	22 x 65	20	1,000 / 1,000	Cap enclosed, Suitable for Al, Linson, Dilab, Mölab
02-841-2000	PS	32 x 60	25	250 / 1,000	dust-free capped, suitable for cell counter from Coulter- and Hycel counter, cap assembled

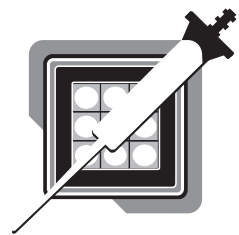


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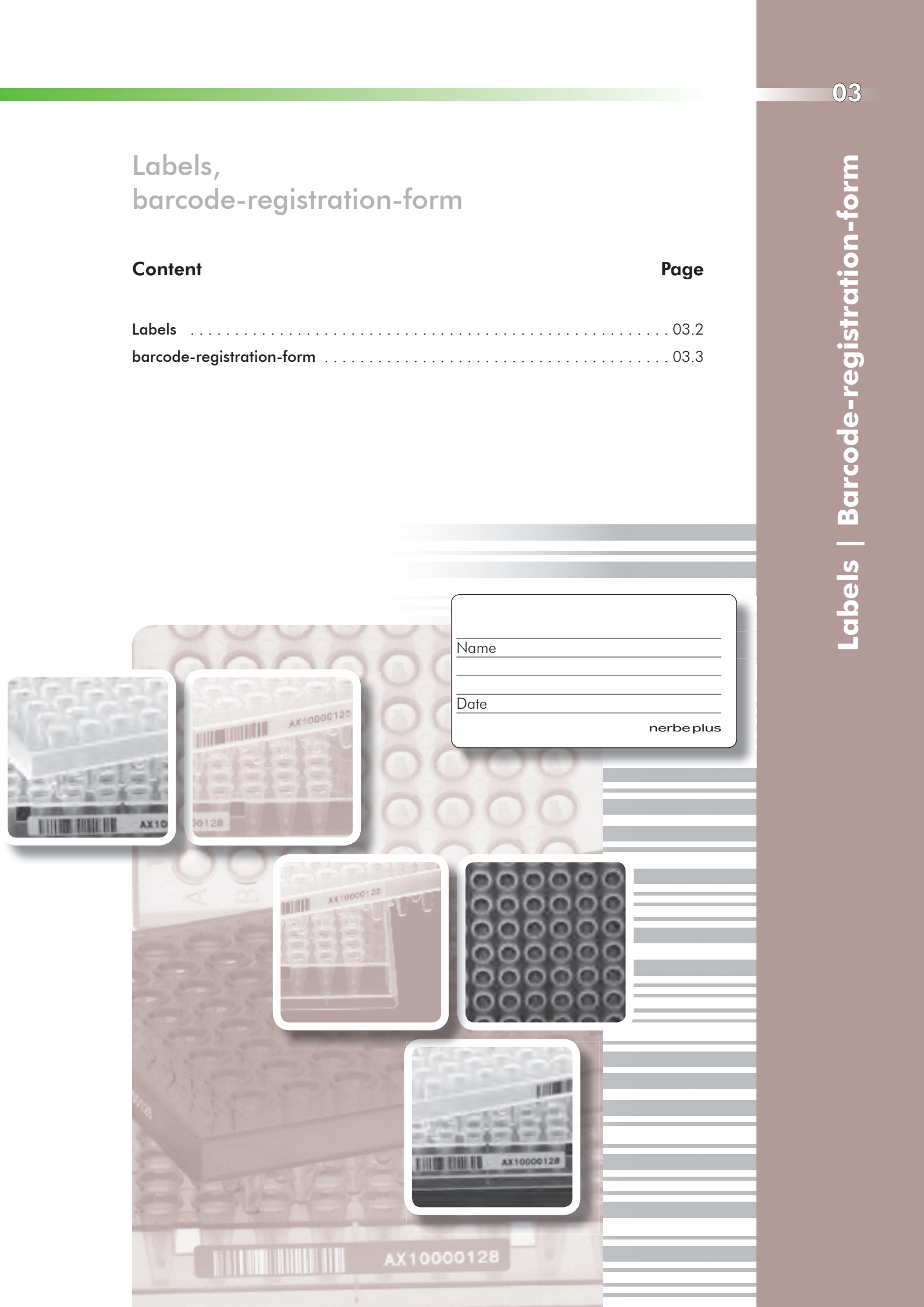
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Labels, barcode-registration-form

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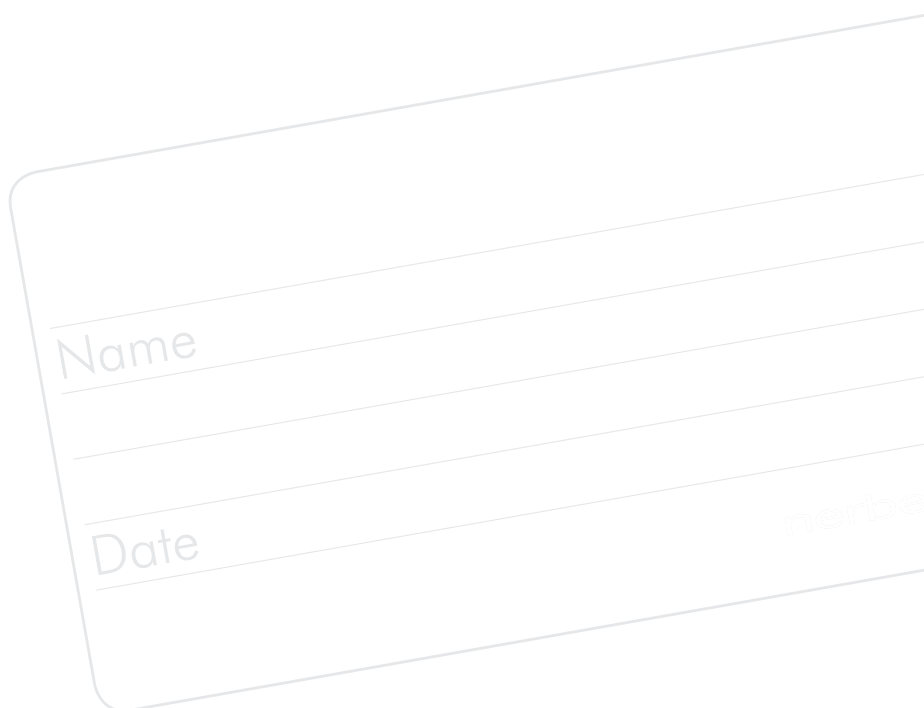
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Date
nerbe plus

02-958-3006



All tubes can be provided with the appropriate labels from the factory for an additional charge. These labels can be delivered with printed- on additional information (e. g . the institution 's address) for an additional charge. Other labels with a customized layout are available on request.

Order no.	Size in mm	Ground color	Impression	Remarks
02-918-3006	50 x 25	white	black	Minimum purchase: 10,000 pcs.
02-938-3006	65 x 35	white	black	Minimum purchase: 10,000 pcs.
02-958-3006	75 x 20	white	black	Minimum purchase: 10,000 pcs.
02-978-3006	76 x 168	white	black	with instructions for the collection of 24-hour urine
02-998-3006	100 x 140	white	purple	Labels for envelopes with printed-on Aesculapian staff. With printed-on address on request.
02-908-4000	60 x 8	white	black	Barcode label DMSO-resistant, freeze-resistant up to -80 °C

bARCODE- registration receipt



Article no:

Barcode type (e. g. 128A / 128B / 128C / 39)

Amount:

Customer:

Requirements of the label (material, resistance)

Contact:

Phone:

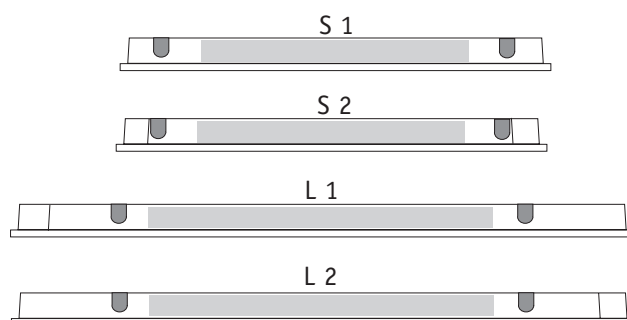
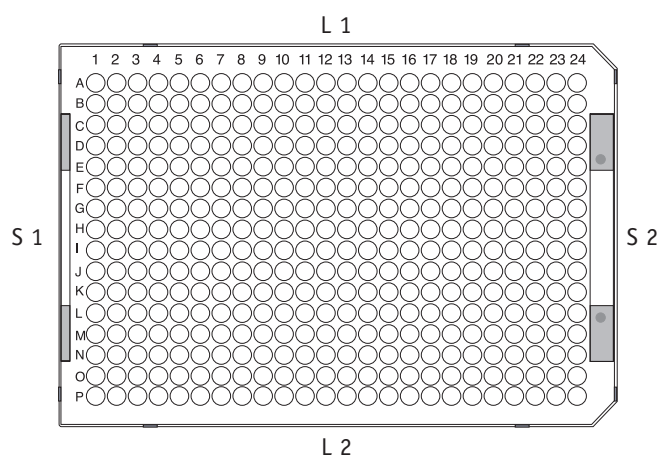
Fax:

E-mail:

Please note: Standard barcode labels from **nerbe plus**, print and glue are DMSO-resistant and can be frozen in up to -20 °C.

Please mark the side of the plate, on which the barcode label should be attached.

Please mark the exact position of the label on the requested side of the plate (e. g. left-aligned, centered, barcode-aligned, right-aligned, etc.)



Please provide a sample in this field for how the segmentation and the pattern of the plain writing section should be printed. Maximum 12 characters incl. spaces, e. g.: 123 ABC 0000

Sequence Start:

Sequence End:



Final confirmation

Sample received and tested by:

Date:

With the signature the customer irrevocably confirms that the label is in accordance with the specifications and that the production shall commence upon receipt of the order.

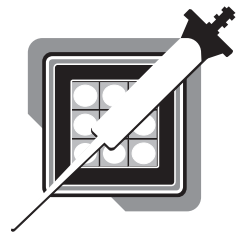


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Our associated company, DR. FRITZ NERBE, a research and development company for laboratory innovations, develops innovative ideas from daily laboratory practice and turns them into marketable products.

In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents. In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

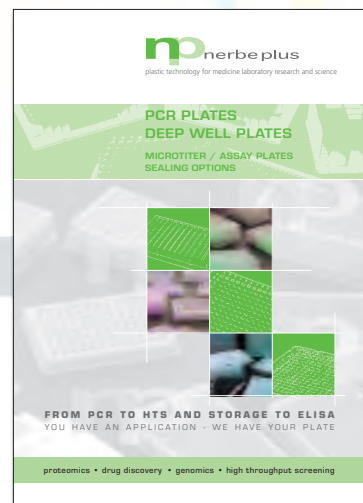


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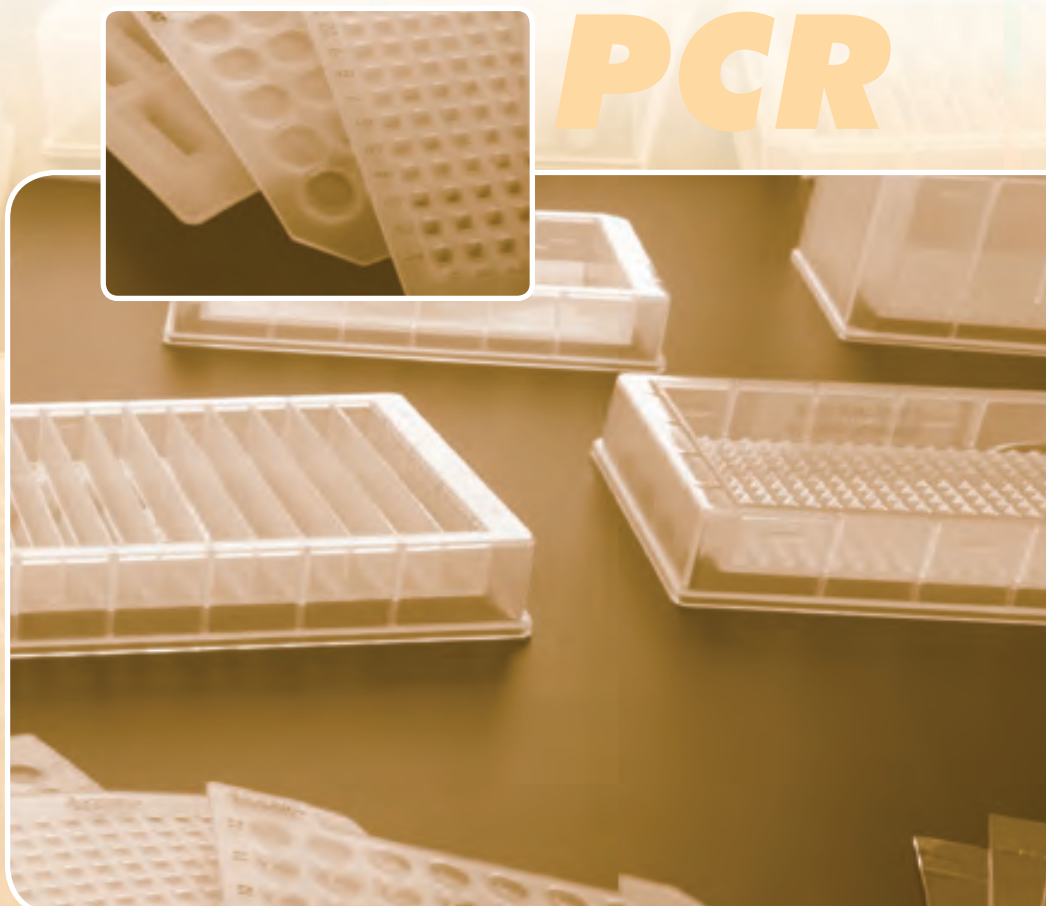
freecall
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General Downloads



Microcentrifuge tubes, PCR tubes, PCR plates, deep well plates, sealing films and mats, reservoirs

Content	Page
Microcentrifuge tubes for special analyzing systems	04.2
np safelock-cap tube	04.3
Polymerase chain reaction (PCR)	04.4
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Reservoirs.	04.9
Sealing films	04.10 - 04.11
Press for sealing mats, sealing mats, compression mats	04.12 - 04.13



Microcentrifuge tubes for special analyzing systems

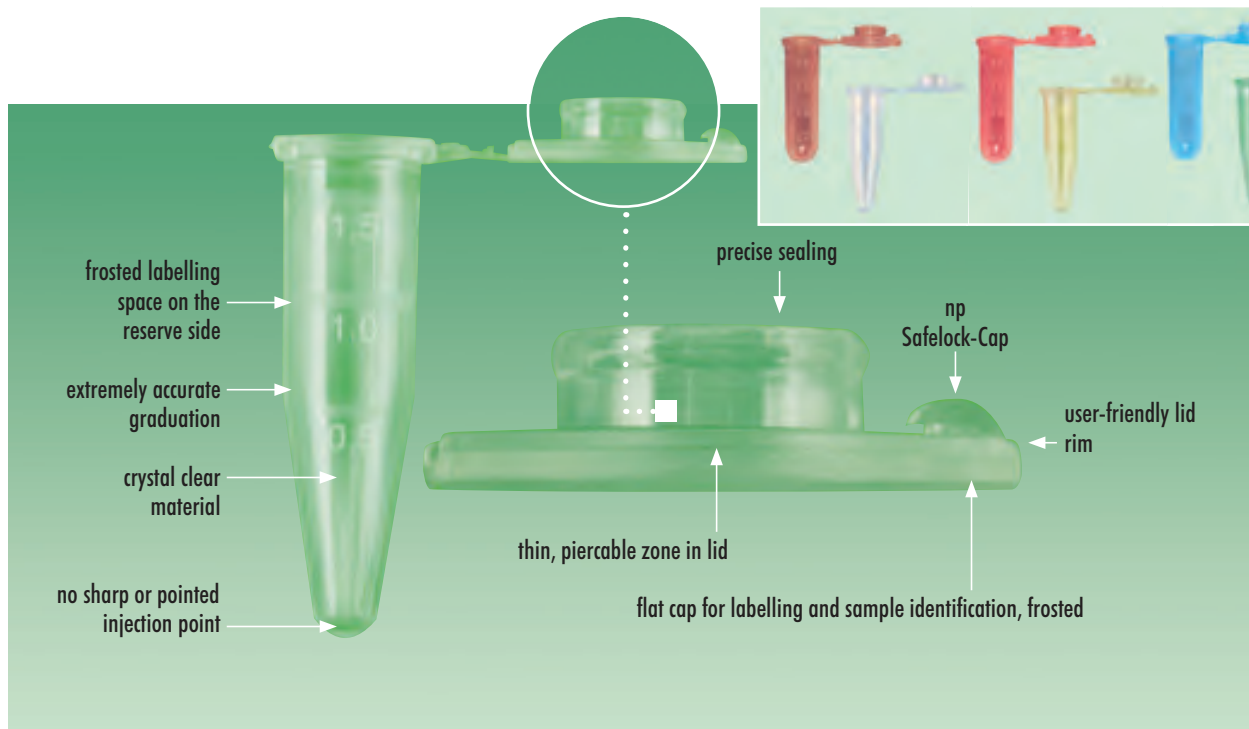


Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
04-332-1051	PP	8 x 30	0.5	1,000 / 10,000	with cap, natural**
04-212-0000*	PP	10.8 x 36.7	1.5	1,000 / 10,000	without cap, natural**
04-212-1000*	PP	10.8 x 39	1.5	1,000 / 8,000	with cap, natural**
04-212-1001*	PP	10.8 x 39	1.5	1,000 / 8,000	with cap, green**
04-212-1002*	PP	10.8 x 39	1.5	1,000 / 8,000	with cap, red**
04-212-1003*	PP	10.8 x 39	1.5	1,000 / 8,000	with cap, yellow**
04-212-1005*	PP	10.8 x 39	1.5	1,000 / 8,000	with cap, blue**
04-232-0000*	PP	10.8 x 39	2	1,000 / 10,000	without cap, natural**
04-232-1051	PP	10.8 x 40.5	2	1,000 / 8,000	with cap, natural**
04-313-1000	PE	8 x 35	0.7	1,000 / 15,000	with cap, natural, suitable for Cobas Bio, Mira and Fara (Hoffmann-La Roche)

* Tubes are graduated and provide a writing area.

** Suitable for microlitre systems from eppendorf and other systems.

np Safelock-Cap tube



The new optimal lid-mechanism of our **np Safelock-Cap** tube avoids accidental opening of the lid during centrifugation and thermal stress.

Sealing of the lid is guaranteed

- with **up to 30.000 x g** centrifugal impact,
- during thermal exposure in incubation or in a boiling water bath **up to 100° C**.

All users were additionally convinced by the following benefits and advantages:

"Hlg H SPeeD PROTeCTION"

Exceptional stability and highest safety in your centrifuge.

"PReCISe LID-FIT"

Hardly any evaporation and sample loss thanks to high quality lid-fit.

"eASy SAMPLe IDeNTIFICATION"

Frosted labelling space on lid and side.

"CRySTAL CLeAR"

Extremely clear product thanks to selected and particularly clear polypropylene, for perfect optical inspection of your sample material.

"eASy TO USe"

Especially user-friendly thanks to our exceptionally designed lid rim.

"AUTOCLAvAbLe"

121° C, 1 bar, 15 minutes

Order no.	Material	Colour	Volume in ml	Packaging unit bag / carton
04-332-1200 / -1201 / -1202	PP	clear / green / red	0.5	1,000 / 10,000
04-332-1203 / -1205 / -1206	PP	yellow / blue / amber	0.5	1,000 / 10,000
04-212-1200 / -1201 / -1202	PP	clear / green / red	1.5	1,000 / 8,000
04-212-1203 / -1205 / -1206	PP	yellow / blue / amber	1.5	1,000 / 8,000
04-232-1200 / -1201 / -1202	PP	clear / green / red	2.0	1,000 / 8,000
04-232-1203 / -1205 / -1206	PP	yellow / blue / amber	2.0	1,000 / 8,000

Polymerase–Chainreaction (PCR)

The polymerase chain reaction (PCR), described first by the American workgroup of Saiki et. al. in 1985 (1), is a method for in-vitro reproduction ("amplification") of defined DNA segments using the enzyme DNA polymerase.

It allows fast and sensitive direct detection of the smallest amounts of DNA or RNA.

The use of this method has revolutionized almost all areas of science and medicine, including forensic medicine, prenatal diagnostics of gene-related diseases, tissue typing for organ transplantations, oncology, paleontology and – last, but not least – microbiological diagnostics.

The inventor of the PCR, Kary Mullis, was awarded the Nobel Prize in Chemistry in 1993.

The DNA is doubled between both primers in each cycle. This causes an exponential reproduction of the DNA, so that theoretically there can be 220 or one million copies of the DNA after 20 cycles. This process takes only a few hours.

To detect the amplification products the DNA is usually stained with ethidium bromide, separated in agarose gel through electrophoresis and assessed under ultraviolet light. A visible band of the expected length (compared with standard DNA lengths) is assessed as positive.

The advantages of the PCR are widely known:

Fast, highly sensitive and specific. However, various incidents may cause a falsely positive or falsely negative result.

One cause can be the use of unqualified disposable articles, e.g. in the extraction of the patient's material and in the performance of the PCR.

nerbe plus disposable articles for the PCR are made of inert material, sterile, pyrogen- as well as RNase-, DNase- and DNA-free. The optimally thin-walled tubes and plates guarantee a fast head conduction.

Method

The PCR involves the cyclic repetition of three steps:

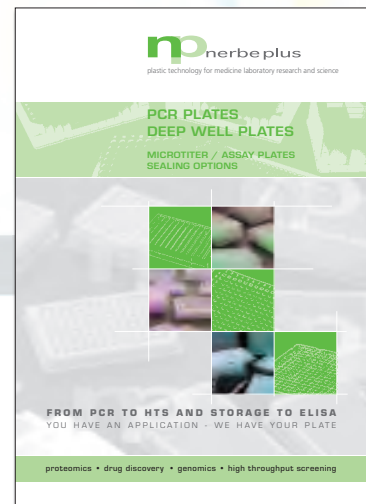
- Denaturalization of double-stranded DNA into single strands.
- Annealing of synthetic oligo-nucleotides (primers) to the flanking ends of the DNA segment, which shall be amplified.
- Polymerization (regeneration) of double-stranded DNA – starting from the primers – with the help of the enzyme DNA polymerase as well of the four deoxynucleotides (dATP, dTTP, dCTP, dGTP).

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<http://www.nerbe-plus.de/downloads/>

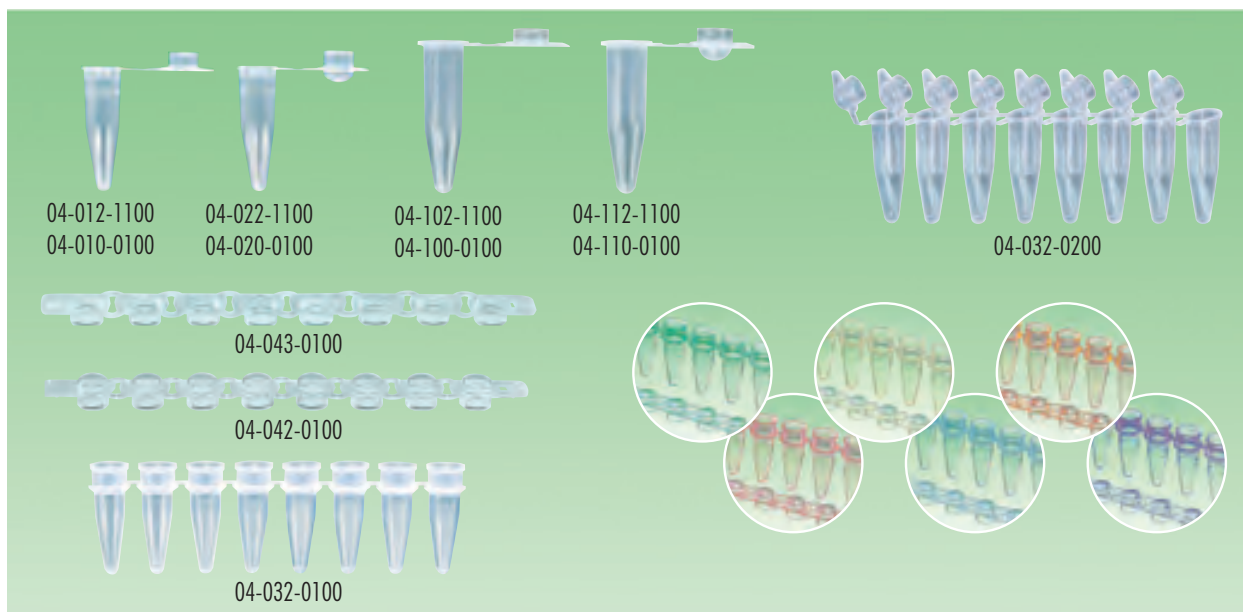
freecall
0800-7300200

General Downloads



PCR tubes / Microcentrifuge tubes

RNase-, DNase-, DNA- and pyrogen-free



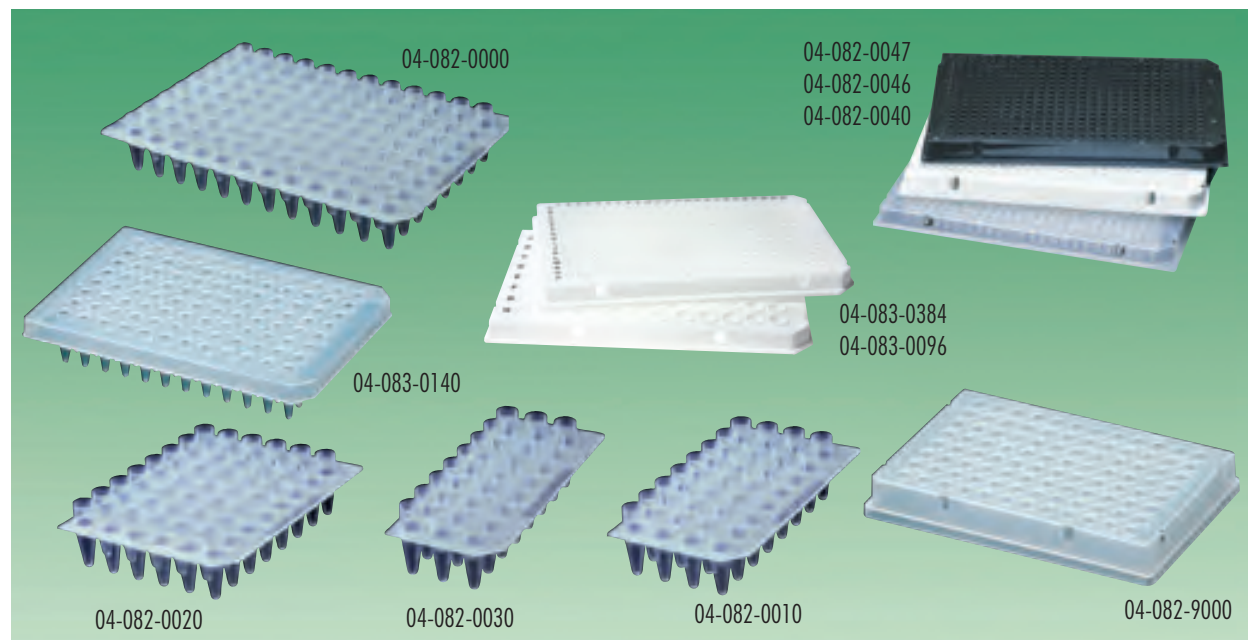
Order no.	Material	Color	Volume in ml	Packaging unit Polybag / carton	Remarks
PCR tubes					
04-012-1100	PP	natural*	0.2	1,000 / 10,000	with flat cap
04-010-0100	PP	natural	0.2	1,000 / 10,000	with flat cap, premium surface
04-022-1100	PP	natural*	0.2	1,000 / 10,000	with domed cap
04-020-0100	PP	natural	0.2	1,000 / 10,000	with domed cap, premium surface
04-032-0100	PP	natural*	0.2	125 / 1,250	strips with 8 tubes
04-032-0200	PP	natural*	0.2	120 / 1,200	strips with 8 tubes with individual attached flat caps
04-042-0100	PP	natural*	0.2	125 / 1,250	strips with 8 domed caps
04-043-0100	PP	natural*	0.2	125 / 1,250	strips with 8 flat caps, ultra clear
04-043-2000	PP	natural	0.2	125 / 1,250	strips with 8 flat caps, frosted surface
04-102-1100	PP	natural*	0.5	1,000 / 10,000	with flat cap
04-100-0100	PP	natural	0.5	1,000 / 10,000	with flat cap, premium surface
04-112-1100**	PP	natural*	0.5	1,000 / 10,000	with domed cap
04-110-0100**	PP	natural	0.5	1,000 / 10,000	with domed cap, premium surface
Microcentrifuge tubes, heat-resistant / premium surface					
04-330-1150	PP	natural	0.6	1,000 / 10,000	with cap, heat-resistant
04-330-1100	PP	natural	0.6	500 / 5,000	with cap, premium surface
04-210-1150	PP	natural	1.5	500 / 5,000	with cap, heat-resistant
04-210-1100	PP	natural	1.5	250 / 2,500	with cap, premium surface
04-230-1150	PP	natural	2.0	500 / 5,000	with cap, heat-resistant
04-230-1100	PP	natural	2.0	250 / 2,500	with cap, premium surface

* also available in following colours: green, red, yellow, blue, orange, violet .

**Discontinued model.

PCR plates

RNase-, DNase-, DNA- and pyrogen-free

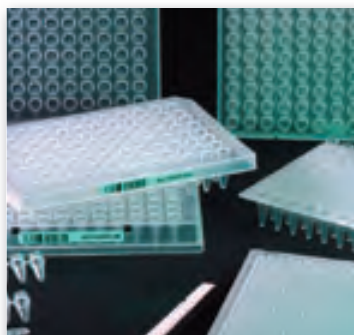


Order no.	Material	Color	Volume in ml	Packaging unit Polybag / carton	Remarks
04-082-0000	PP	natural	0.2	10 / 50	96 wells
04-082-5000	PP	natural	0.2	10 / 50	96 wells, sterile R
04-082-9000	PP	natural	0.2	10 / 50	96 wells, full skirt
04-082-0020	PP	natural	0.2	10 / 50	48 wells
04-082-0010	PP	natural	0.2	10 / 50	32 wells
04-082-0030	PP	natural	0.2	10 / 50	24 wells
04-082-0040	PP	natural	0.025	10 / 50	384 wells
04-082-0046	PP	white	0.025	10 / 50	384 wells
04-082-0047	PP	black	0.025	10 / 50	384 wells
04-082-5040	PP	natural	0.025	10 / 50	384 wells, sterile R
04-083-0140	PP	natural	0.2	10 / 50	96 wells, half skirt
04-083-0096	PP	white	0.2	10 / 100	96 wells, suitable for Roche Lightcycler 480
04-083-0384	PP	white	0.04	10 / 1,000	384 wells, suitable for Roche Lightcycler 480

Compatibility list PCR plates / Thermocycler

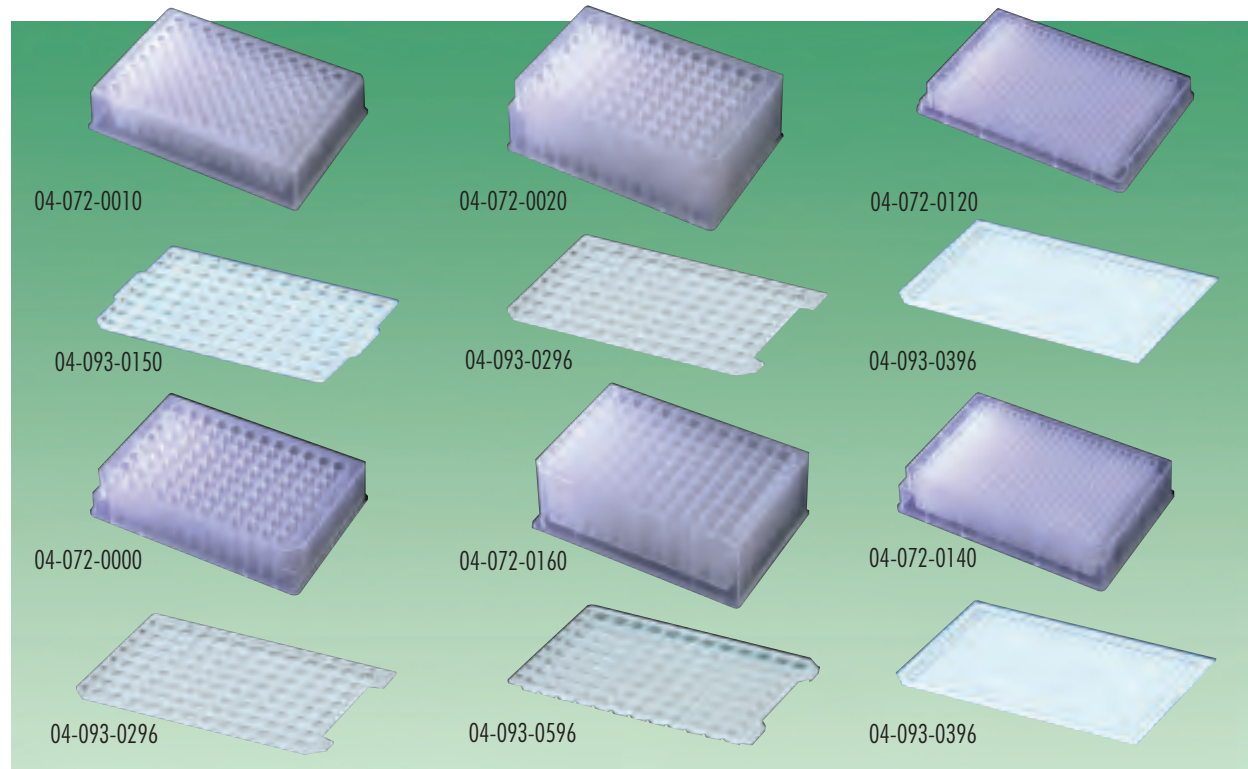
ISO
DIN/EN 13485
CERTIFIED

PCR plates		PCR-96 wells	PCR-96 wells half skirt	PCR-96 wells full skirt	PCR-384 wells
Thermocycler					
Biometra Uno		●	●		
Uno II		●	●		●
T1		●	●	●	●
TGradient		●	●	●	
Bio-Rad	Gene Cyclor	●	●		
ICycler		●	●		
Corbett Corbett		●	●	●	
Eppendorf Mastercycler		●	●	●	
Ericom	Single Block	●	●		
	Twin Block	●	●		
Deltacycler		●	●		
Hybaid Sprint		●	●		
Express		●	●		●
T	ouchdown	●	●		
Omigene		●	●	●	
Omn-E		●	●	●	
MJ Research	PTC 200	●	●	●	●
PT	C225	●	●	●	●
PT	C100	●	●	●	
MWG	Primus 96	●	●	●	
	Primus 384				●
PE 9600		●	●	●	●
9700		●	●	●	●
Stratagene R	obocyclor	●	●	●	●
Teche T	ouchgene	●	●	●	
Genius		●	●	●	
TaKaRa	TP 240	●	●	●	●
	TP 3000	●	●	●	
Amersham 1000				●	
Ph. Biotech				●	
M. Dynamics				●	



Deep well plates, sealing mats

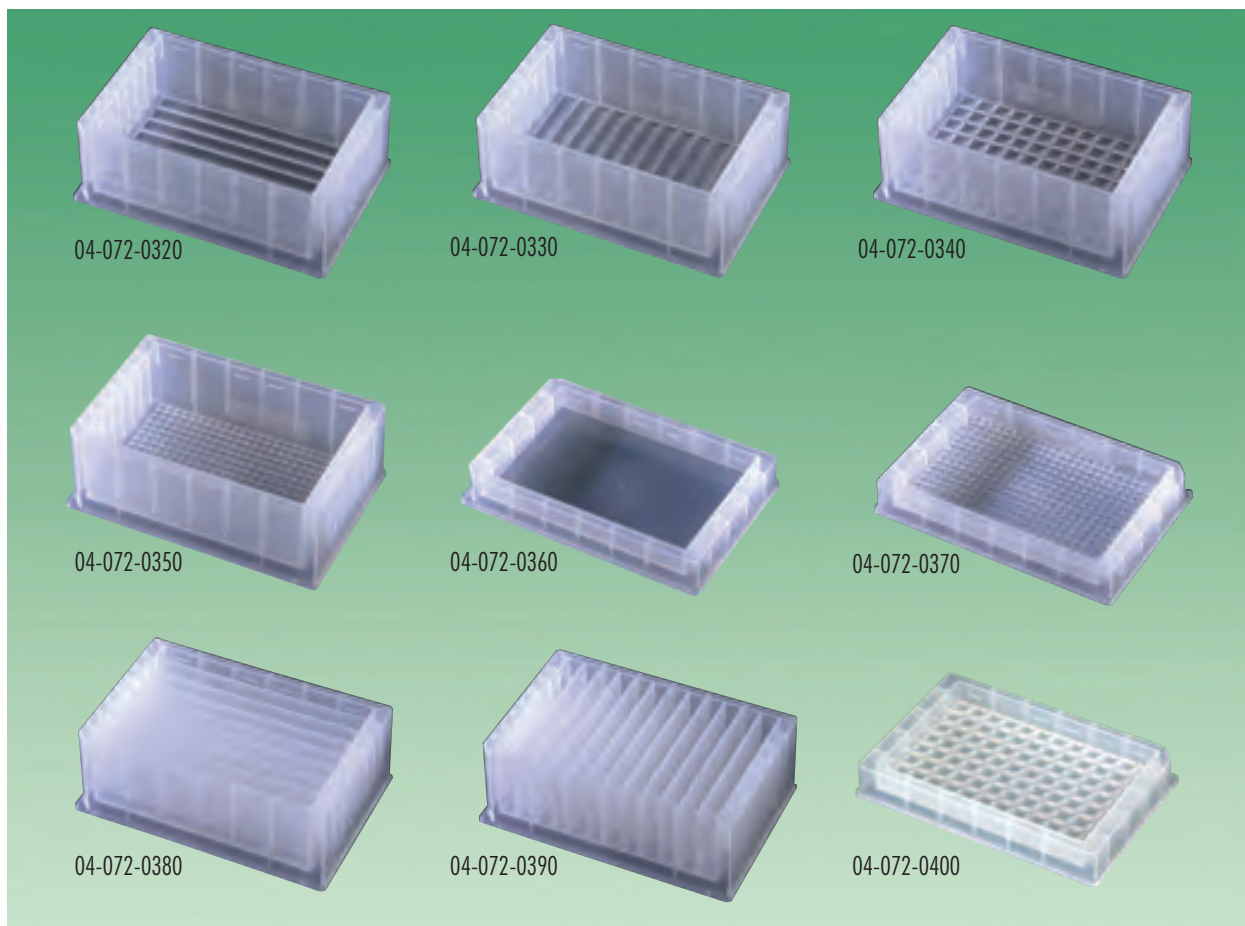
RNase-, DNase-, DNA- and pyrogen-free



Order no.	Material	Color	Volume in ml	Packaging unit Polybag / carton	Remarks
04-072-0010	PP	natural	0.5	5 / 50	96 deep well plate
04-093-0150	Silicone	natural	0.5	10 / 50	Silicone mat for 0.6 ml, pierceable
04-072-0000	PP	natural	1.1	5 / 50	96 deep well plate
04-093-0296	Silicone	natural	1.1	10 / 50	Silicone mat for 1.1 and 2.0 ml, pierceable
04-072-0020	PP	natural	2.0	5 / 50	96 deep well plate
04-093-0296	Silicone	natural	2.0	10 / 50	Silicone mat for 1.1 and 2.0 ml, pierceable
04-072-0160	PP	natural	2.0	5 / 25	96 deep well plate, square holes
04-093-0596	Silicone	natural	2.0	10 / 50	Silicone mat for 2.0 ml, pierceable
04-072-0120	PP	natural	0.12	10 / 50	384 deep well plate, square holes
04-093-0396	Silicone	natural	0.12	10 / 50	Silicone mat for 384 well deep well plate, pierceable
04-072-0140	PP	natural	0.24	5 / 50	384 deep well plate, square holes
04-093-0396	Silicone	natural	0.24	10 / 50	Silicone mat for 384 deep well plate, pierceable

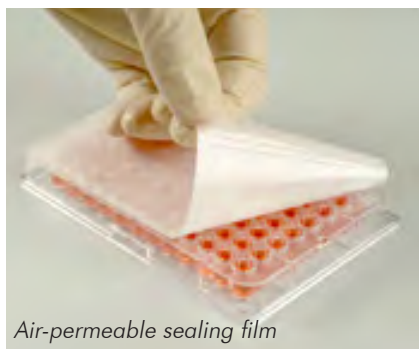
Reservoirs

according to SBS-Standard-Format



Order no.	Material	Color	Volume in ml	Packaging unit Polybag / carton	Remarks
04-072-0320	PP	natural	290	5 / 25	Single well, 8 bottom, high profile
04-072-0330	PP	natural	290	5 / 25	Single well, 12 bottom, high profile
04-072-0340	PP	natural	240	5 / 25	Single well, 96 bottom, high profile
04-072-0350	PP	natural	282	5 / 25	Single well, 384 bottom, high profile
04-072-0400	PP	natural	86	5 / 25	Single well, 96 bottom, low profile
04-072-0360	PP	natural	90	5 / 25	Single well, 1 bottom, low profile
04-072-0370	PP	natural	92	5 / 25	Single well, 384 bottom, low profile
04-072-0380	PP	natural	10 per channel	5 / 25	8 channel, high profile
04-072-0390	PP	natural	7 per channel	5 / 25	12 channel, high profile

Sealing Films



Air-permeable sealing film

Air and gas-permeable sealing film

Art. no. 04.097.0050; 04.097.5050 (sterile R)

Porous sealing film, especially configured for application with cell and tissue cultures.

All types of microplates can be sealed efficiently with this film.

The film allows for gas exchange of cell and bacteria cultures and prevents cross-contamination at the same time.

Application areas

- Sealing of polypropylene and polystyrene plates, 96 well plates, 384 well plates and other plates for laboratory tests.
- Efficient gas exchange for cell and bacteria cultures and prevention of cross-contamination.
- Among the main users of this product are microbiological laboratories, which perform tissue, bacteria and other types of cell cultures.



Ultra Clear sealing film

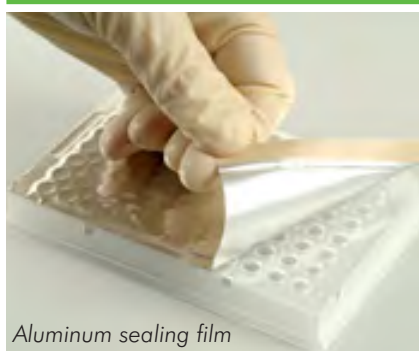
Ultra Clear sealing film

Art. no. 04.095.0050

Extraordinarily transparent film, especially configured to fulfill the optical requirements of real-time PCR. Due to the unique pressure sensitive undercoating no sticky residue remains on the film, which interfere with the optical analysis.

Application areas

- Sealing of 96 well plates and 384 well plates
- Transparency allows for optical analysis of real-time PCR.
- Among the main users of this product are microbiological/molecular biological laboratories, which conduct optical analyses and need to preserve the integrity of the specimens at the same time.



Aluminum sealing film

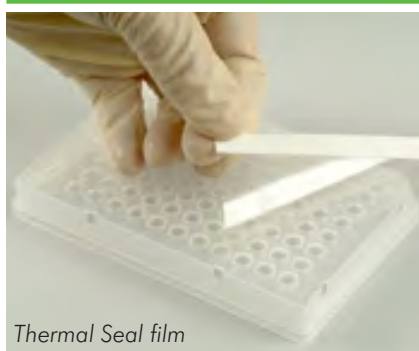
Aluminum sealing film

Art. no. 04.096.5000 (sterile R)

This durable aluminum sealing film guarantees excellent sealing of microplates with a variety of temperatures and reagents. The aluminum sealing film is excellently suitable for light-sensitive specimen. The undercoating guarantees optimal sealing.

Application areas

- Extraordinarily good sealing in frozen storage.
- When used with **nerbe plus** compression mat: optimal sealing also during heat cycle processes.
- Among the main users of this product are laboratories, which conduct light sensitivity tests, store specimen and perform PCR protocols.



Thermal Seal film

Thermal Seal film

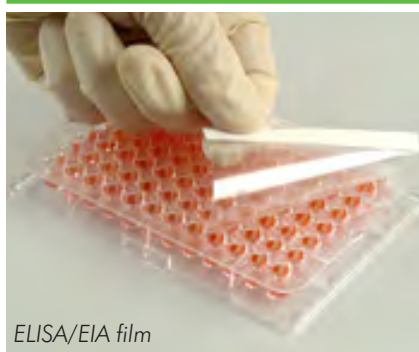
Art. no. 04.097.0000

A high-quality polypropylene film configured to prevent well-to-well and crossover contamination in PCR applications.

Their uniformity and even undercoating guarantee excellent sealing over the whole plate.

Application areas

- Extraordinary sealing over the whole plate secures the specimen during transport or in storage.
- When used with **nerbe plus** compression mat: optimal sealing also during heat cycle processes.



ELISA/EIA film

ELISA/EIA film

Art. no. 04.095.0000; 04.095.5000 (sterile R)

The special characteristic of this film on polyester basis and the evenly applied acrylic undercoating which prevents the edge effect during sensitive ELISA tests. Suitable for sealing tissue culture plates, for short-term storage and incubation, transport and sealing of biohazardous solutions.

Application areas

- For the sealing of test plates to be used in ELISA/EIA protocols.
- Efficient sealing of single wells on the same plate.
- Among the main users of this product are microbiological laboratories, which conduct ELISA and other analytical tests.

Options for secure sealing

Optimal conditions

- Films are not autoclavable.
- Temperature range for optimized performance:

Air-permeable Sealing film	+4°C to + 40°C
UltraClear Sealing film	-40°C to +104°C
Aluminium Sealing film	-80°C to +104°C
ThermalSeal Sealing film	-40°C to +104°C
elisa-/eIA film	-40°C to +104°C

Packaging

	box / case
04.097.0050 Air-permeable film	100 / 1,000
04.097.5050 Air-permeable film	100 / 500
04.095.0050 Ultra Clear film	100 / 500
04.096.5000 Aluminium film	100 / 500
04.097.0000 Thermal Seal film	100 / 500
04.095.0000 Elisa-/EIA film	100 / 500
04-095-5000 Elisa-/EIA film	100 / 500

Quality assurance

- To assure that the highest quality standards are kept each lot has to undergo rigorous checks and tests.
- Certifications of standard fulfillment are available on request.

Sterility

- Air-permeable sealing films as well as ELISA/EIA films are available in sterile and non-sterile versions.
- All other films are only available in non-sterile versions.
- Aluminium film is only sterile available.

The whole product line of **nerbe plus** sealing films meets all of your demands on plate sealing.

In addition to the unique characteristics of each foil mentioned on the cover, you can expect the following characteristics and advantages of the films.

Characteristics

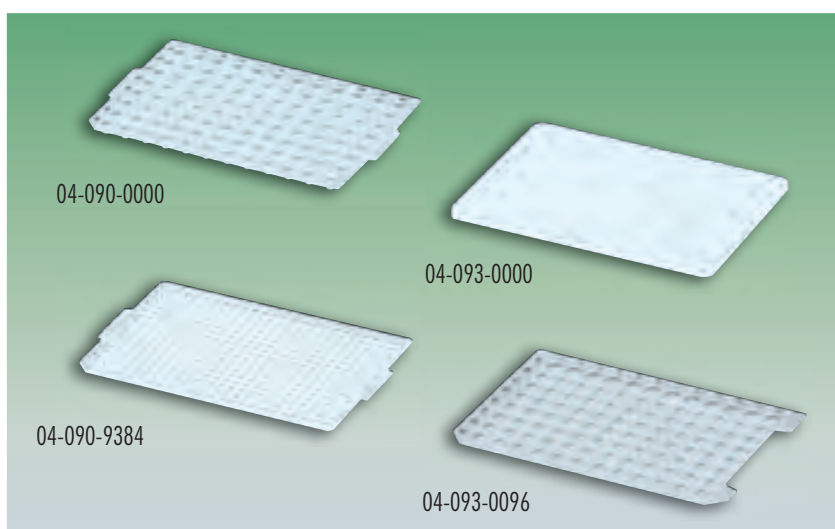
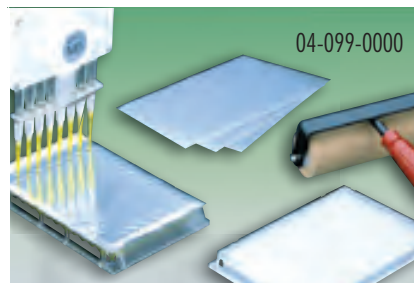
- Evenly distributed, non-cytotoxic undercoating.
- Easily removable film carriers.
- Non-sticky plate section for easy removal of the films from the plates.
- Certain films are pierceable with pipette tips, other films are pierceable with capillaries.
- Packaged in user-friendly, resealable bags.

Advantages

- Even and safe sealing over the whole plate.
- Safe application for microbiological protocols.
- Simple application, no matter if one or dozens of plates are sealed.
- Simple and exact alignment of the films on the plates.
- Removal of specimen from single wells without destroying or contaminating adjacent wells.
- Simple handling and secure storage.

Press for sealing mats

*Sealing mats, compression mats,
roller for sealing films and mats*



Order no.	Material	Color	Packaging unit Polybag / carton	Remarks
04-090-0000	Silicone	natural	10 / 50	Silicone mat for 96 plates, pierceable
04-090-9384	Silicone	natural	10 / 50	Silicone mat for 384 plates, pierceable
04-093-0000	Silicone	natural	10 / 50	Silicone compression mat, flat, temperature-resistant from -80 to +121 °C
04-093-0096	Silicone	natural	10 / 50	Silicone compression mat, 96 well PCR plate, with nubs
04-093-3100	Silicone	grey	10 / 50	Septa 96 mat, slit cavities, for sequence A B I
04-099-0000	Silicone	red / black	1	Roller for sealing films and mats
04-099-1000	Silicone	red	1	Press for 96 and 384 format PCR plates, deep well plates and microtiter plates

Instructions for press for sealing plates



- easy to use
- economical
- Flexible

The press for sealing plates from **nerbe plus** is an easy -to-use manual plate press which place sealing mats on 96- and 384-plate systems, deep well plates, microtest plates and PCR plates.

With just a quick turn of the wheel, **nerbe plus** press for sealing plates can be adjusted to fit any of the various plate sizes (from a 384-PCR plate to a 2-ml deep well plate).



The procedure is simple:

1 Place a plate into the sliding bed (without sealing mat) and push the sliding bed into the press.

2 Turn the adjustment wheel until it lightly touches the plate.

3 Remove the sliding bed from the press and place the appropriate sealing mat on your plate.

Lock 2-3 corners of the sealing mat.

4 Put the sliding bed back into the press.

6 Remove the sliding bed from the press and remove the closed plate.

7 You can now seal additional plates of the same format by starting from step 2 again or, if you want to seal plates of a different format, start at step 1.



5 Now pull the lever down to its stop and back up to the starting point.



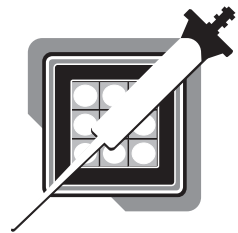


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In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents. In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

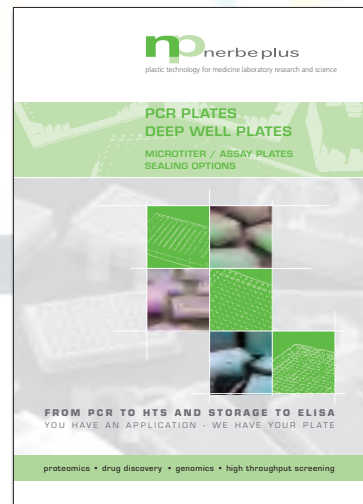


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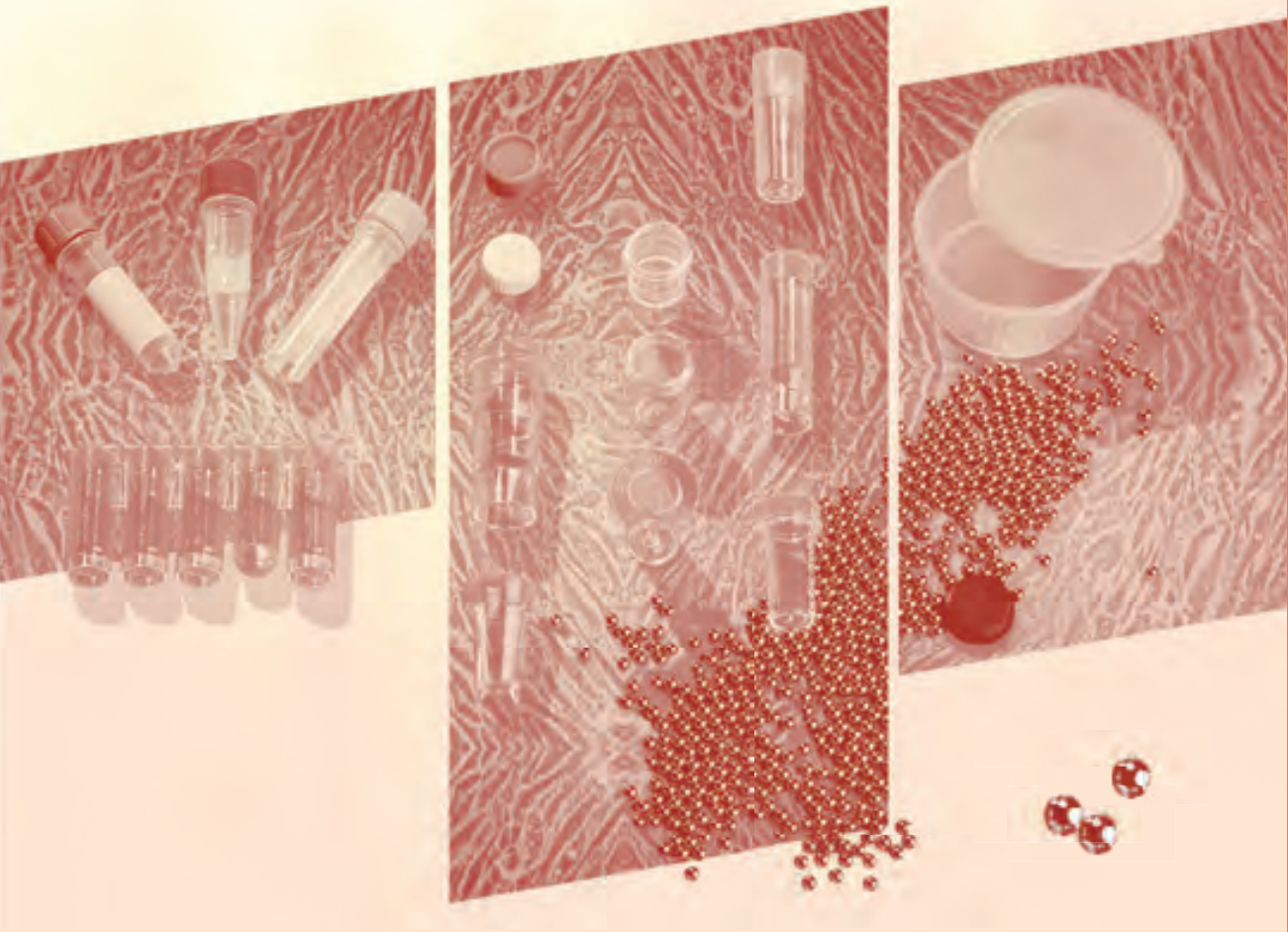
General Downloads



Analyzer cups for special applications

Cryo vials

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Analyzer cups for special analyzing systems	05.2
Scintillation vials	05.3
Cyro vials with screw caps	05.4



Analyzer cups for special analyzing systems



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
05-003-0800	PE	14	–	1,000 / 10,000	Cap without cross slit, natural, for sample tubes 05-021-0000, 05-041-0000, 05-061-0000, 05-081-0000, 05-121-0000
05-021-0000	PS	14 x 17	0.4	1,000 / 14,000	CentrifChem (Roche), Monarch (IL) and others
05-121-0000	PS	14 x 25	0.5	1,000 / 10,000	RA 1000 (Technikon)
05-041-0000	PS	14 x 24	0.5	1,000 / 10,000	RA 1000 (Technikon), Gensae (Electro Nucleonics, Kone Astra (Beckman) and others
05-061-0000	PS	14 x 22	1.5	1,000 / 10,000	Autoanalyser (Technikon) and others
05-163-0000	LD-PE	12	–	5,000 / 35,000	Ribbed plug, natural, for sample tube no. 05-161-0000
05-181-0000	PS	17 x 38	3	1,000 / 6,000	Hitachi, Roche Boehringer 705, 706, 712, 7150, 7250
05-261-0000	PS	14 x 50	4	1,000 / 6,000	Olympus AU 560, AU 800, AU 5000, AU 5200

Scintillation vials

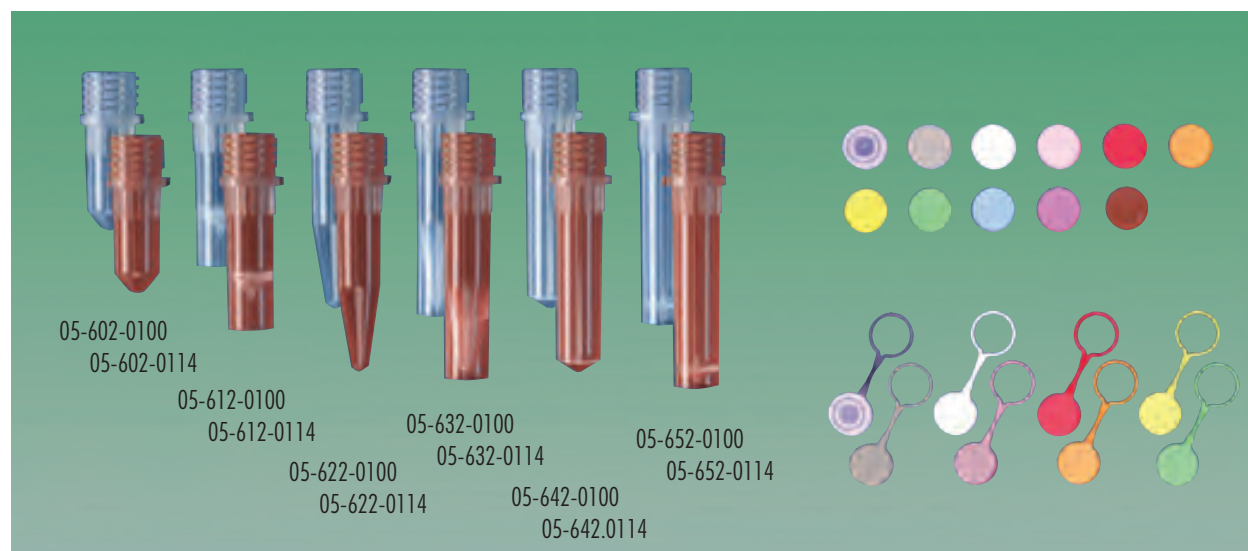


The scintillation bottles can be closed with a quarter turn, whereas the cap locks in and does not reopen on its own as could occur with the use of toluene.

With its slight photoluminescence it allows the most precise counting in the scintillation counter.

Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
05-723-1000	HD-PE	27 x 58	20	1,000 / 1,000	Scintillation bottle, enclosed screw cap
05-733-1000	HD-PE	16 x 57	4	1,000 / 2,000	Tubes for scintillation bottle, enclosed screw cap

Cryo vials with Screw caps



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
05-602-0100	PP	9.5 x 30	0.5	500 / 4,000	without rim, natural
05-602-0114	PP	9.5 x 30	0.5	500 / 4,000	without rim, amber
05-612-0100	PP	9.5 x 36.7	0.5	500 / 4,000	with rim, natural
05-612-0114	PP	9.5 x 36.7	0.5	500 / 4,000	with rim, amber
05-622-0100	PP	9.5 x 46.2	1.5	500 / 4,000	without rim, natural
05-622-0114	PP	9.5 x 46.2	1.5	500 / 4,000	without rim, amber
05-632-0100	PP	9.5 x 47.5	1.5	500 / 4,000	with rim, natural
05-632-0114	PP	9.5 x 47.5	1.5	500 / 4,000	with rim, amber
05-642-0100	PP	9.5 x 46.2	2.0	500 / 4,000	without rim, natural
05-642-0114	PP	9.5 x 46.2	2.0	500 / 4,000	without rim, amber
05-652-0100	PP	9.5 x 47.3	2.0	500 / 4,000	with rim, natural
05-652-0114	PP	9.5 x 47.3	2.0	500 / 4,000	with rim, amber
05-662-0100*	PP / natur	–	–	500 / 4,000	Screw cap
05-662-0119	PP (50 x 10 bag in assorted colors)	–	–	500 / 4,000	without O-ring
05-662-0800*	PP / natur	–	–	500 / 4,000	Screw cap with O-ring
05-662-0819	PP (50 x 10 bag in assorted colors)	–	–	500 / 4,000	made of silicon
05-672-0100*	PP / natur	–	–	500 / 4,000	Looped screw cap
05-672-0119	PP (50 x 10 bag in assorted colors)	–	–	500 / 4,000	without O-ring
05-672-0800*	PP / natur	–	–	500 / 4,000	Looped screw cap and O-ring
05-672-0819	PP (50 x 10 bag in assorted colors)	–	–	500 / 4,000	made of silicon

* Also available in color. / Cryo vials with fitted screw cap are also available sterile R.

Cuvettes

Disposable cuvettes

Content	Page
Disposable square cuvettes	06.2



Disposable square cuvettes

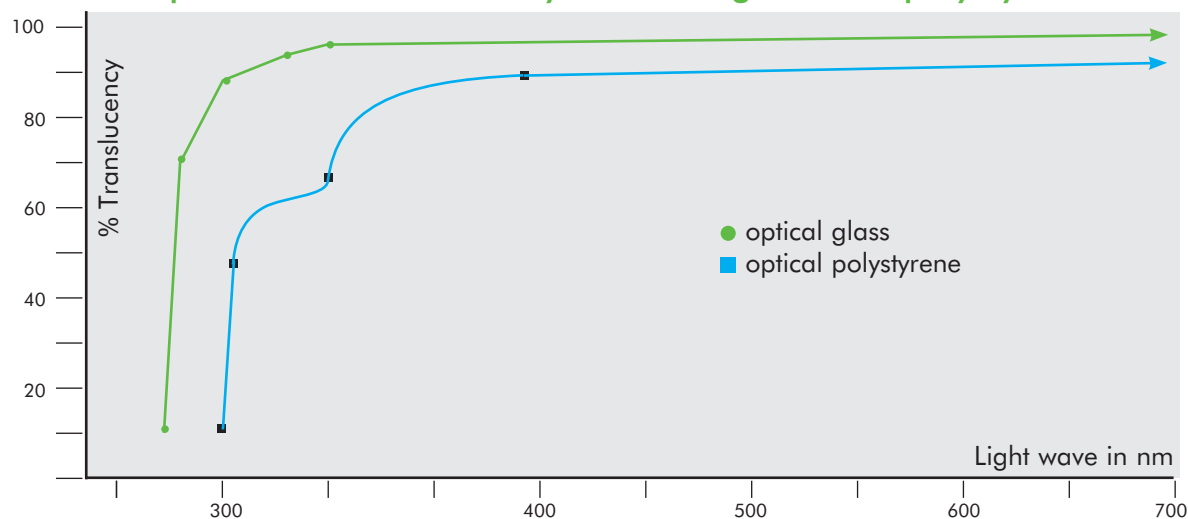


The cuvettes are selected.

This means that the minimized coefficient of variation of the blank value extinctions of all cuvettes in one box is negligible. The radiography of the optically active surface of the cuvette can be performed on any spot of the whole interior space of the cuvette.

Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Styrofoam box / carton	Remarks
06-011-0250	PS	12 x 45	1.5	100 / 1,000	semimicro, optical path length: 10 mm for all common photometer
06-021-0250	PS	12 x 45	4	100 / 1,000	macro, optical path length: 10 mm for all common photometer

Comparison of translucency between glass and polystyrene



Dispenser tips nerbe[®], pipette tips, pipette tips premium surface, with filter, for pipettier roboter, Refill System

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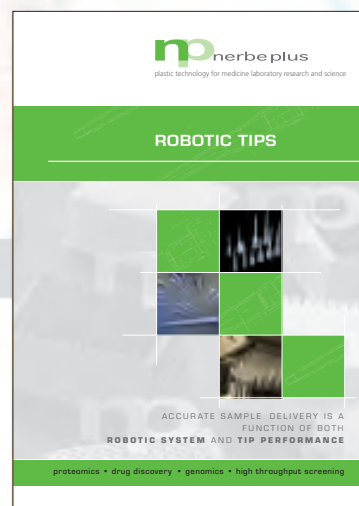
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General Downloads



**Dispenser tips nerbe[®] | Pipette tips | Pipette tips premium surface,
with filter, for pipettier roboter | Refill System**

Dispenser tips nerbe®

Dispenser tips nerbe®

Dispenser tips nerbe® are used wherever mechanized dispenser pipettes have replaced common pipettes as metering units to perform manual serial pipetting. This process is very time-consuming and also frequently contributes to errors with the aforementioned models.

The use of dispenser pipettes with fixable single discharge volume in connection with dispenser tips nerbe® therefore results in enormous time savings with the highest precision and accuracy of dosage. To achieve this, the total volume of the liquid, which has to be pipetted, is drawn up into the dispenser tips nerbe® and then released again in the appropriate volumes, depending on the capacity of the chosen dispenser tips nerbe® as well as on the presetting of the dispenser.

Dispenser tips nerbe® are made of high-purity polypropylene (PP) and polyethylene (PE) and are in accordance with:

- DIN EN ISO 8655, part 1: "Piston-operated volumetric apparatus, general requirements", section 3.1.1.2, 3.2.2 and 3.2.3

Dispenser tips nerbe® have a certified conformity in connection with the, for example,

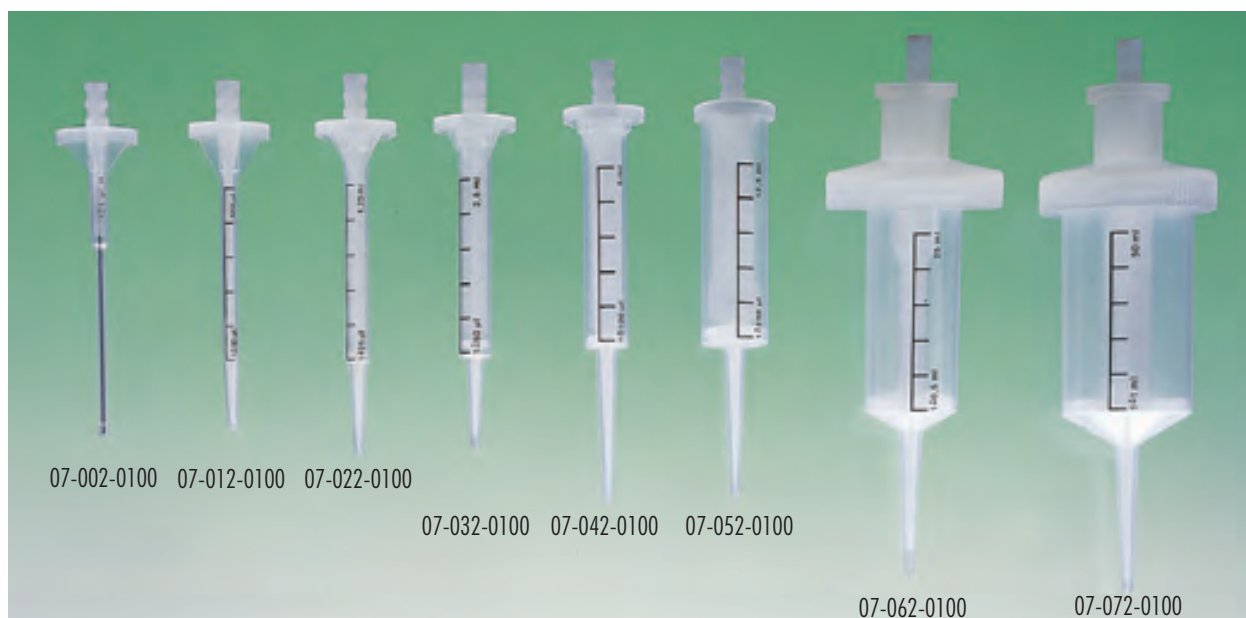
- eppendorf Multipette 4780, Starlab Repeat One, eppendorf EDOS 5221 system and TRI-Continent Easystep, Ritter Pipette, Brand HandyStep, Brand EasyStep, Minilab 100/101, Distriman

Our sterile **dispenser tips nerbe®** have been sterilized through beta radiation and fulfill the following criteria:

Dispenser tips nerbe® are sterile R in accordance with the requirements of sterility as laid out in DAB 10, USP XXIII and ISO 1137.

Dispenser tips nerbe® are free of endotoxins, RNase, DNase and DNA.

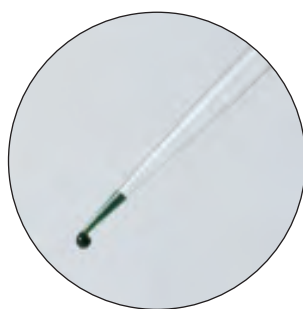
Dispenser tips nerbe®



Order no.	Material	Volume in ml	Packaging unit Polybag / carton	Remarks
07-002-0100	PP/stainless steel	0.05	100 / 4,800	autoclavable
07-012-0100	PP/PE	0.5	100 / 4,800	–
07-012-8100	PP/PE	0.5	100 / 1,200	individually wrapped, sterile R
07-022-0100	PP/PE	1.25	100 / 4,800	–
07-022-8100	PP/PE	1.25	100 / 1,200	individually wrapped, sterile R
07-032-0100	PP/PE	2.5	100 / 3,000	–
07-032-8100	PP/PE	2.5	100 / 1,200	individually wrapped, sterile R
07-042-0100	PP/PE	5.0	100 / 3,000	–
07-042-8100	PP/PE	5.0	100 / 1,200	individually wrapped, sterile R
07-052-0100	PP/PE	12.5	100 / 1,600	–
07-052-8100	PP/PE	12.5	100 / 1,200	individually wrapped, sterile R
07-062-0100	PP/PE	25	50 / 800	incl. 1 adapter per box
07-062-8100	PP/PE	25	25 / 300	incl. 1 adapter per box, individually wrapped, sterile R
07-072-0100	PP/PE	50	25 / 400	incl. 1 adapter per box
07-072-8100	PP/PE	50	25 / 300	incl. adapter per box individually wrapped, sterile R
07-082-0000	PP	–	20 / 20	Adapter for 25- and 50-ml dispenser tips
07-082-8000	PP	–	1 / 20	Adapter for 25- and 50-ml dispenser tips individually wrapped, sterile R
07-092-0111	–	–	1	Dispenser-Pipette incl. adapter

Comparison of surface characteristics of different pipette tips made of polypropylene

The pictures show the visible differences on the surfaces of **nerbe plus** pipette tips compared to standard tips (interior surface, photographed with SEM/EDS and magnified between 50 to 5,000 times).



Premium surface tips
after pipetting of
a 100 µl sample



Standard tip
after pipetting of
a 100 µl sample

Sample transfer in the automation with high throughput screening (HTS) and DNA sequence analysis has the highest requirements on the plastic articles used.

The preparation of the samples is usually described in detail while reproducibility and accuracy is assumed as given. An exact transfer of the sample requires an optimally harmonized function of your pipette with the used pipette tip. Calibrated pipettes usually work with an accuracy of approx. $\pm 1\%$.

The deviation to higher values is often caused by the lack of quality of the used pipette tips.

nerbe plus pipette tips eliminate this risk for you, because they ensure the highest accuracy and reproducibility, guaranteed.

Extensive scientific research in the comparison of standard polypropylene articles used in biotechnological laboratories with **nerbe plus** products have shown that significant amounts of DNA may get lost through absorption of the disposable standard plastic articles used (pipette tips, reagent tubes, PCR plates, etc.).

DNA fragments denaturalize easily while bound on standard PP surfaces. There they have a tendency to dehydrate, which inevitably leads to malfunction. These negative characteristics do not occur in nerbeplus premium surface products. Precision and accuracy are guaranteed.

nerbe plus pipette tips are made of hydrophobic plastic and therefore fulfill the requirements of automatic microlitre pipettes in technology and effectiveness.

nerbe plus pipette tips also are subject to voluntary external quality checks in addition to our in-house supervision of the production to assure that only those pipette tips leave our house, which fulfill the highest quality standards.

Pipette tips

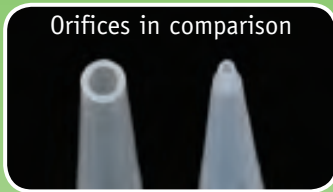
for various pipettes

RNase-, DNase-, DNA- and pyrogen-free

Order no.	Material	Volume in µl	Packaging unit Polybag / carton	Remarks
07-802-0140	PP natural	0.1 - 10	1,000 / 20,000	classic
07-802-0340	PP natural	0.1 - 10	96 per rack / 4,800	classic
07-802-0000	PP natural	0.1 - 10	1,000 / 20,000	premium surface
07-802-0400	PP natural	0.1 - 10	96 per rack / 4,800	premium surface
07-112-0000	PP natural	0.1 - 20	1,000 / 8,000	classic
07-812-0340	PP natural	0.1 - 20	96 per rack / 4,800	classic
07-812-0000	PP natural	0.1 - 20	1,000 / 20,000	premium surface
07-812-0300	PP natural	0.1 - 20	96 per rack / 4,800	premium surface
07-122-0073	PP yellow	1 - 200	1,000 / 25,000	classic
07-122-0173	PP yellow	1 - 200	96 per rack / 4,800	classic
07-162-0003	PP yellow	1 - 200	1,000 / 10,000	premium surface
07-162-0303	PP yellow	1 - 200	96 per rack / 4,800	premium surface
07-132-0095	PP blue	100 - 1,000	1,000 / 10,000	classic
07-132-0195	PP blue	100 - 1,000	96 per rack / 3,456	classic
07-163-0005	PP blue	100 - 1,000	500 / 5,000	premium surface
07-163-0305	PP blue	100 - 1,000	96 per rack / 3,456	premium surface

Pipette tips without filter

RNase-, DNase-, DNA- and pyrogen-free



Large Normal



Order no.	Material	Volume in µl	Packaging unit Polybag / carton	Remarks
07-882-0040	PP / natural	1 - 300	1,000 / 10,000	–
07-882-0320	PP / natural	1 - 300	96 per rack / 4,800	–
07-882-5340	PP / natural	1 - 300	96 per rack / 4,800	sterile R
07-862-0080	PP / natural	1 - 200	1,000 / 20,000	large orifice
07-862-0380	PP / natural	1 - 200	96 per rack / 4,800	large orifice
07-862-5380	PP / natural	1 - 200	96 per rack / 4,800	large orifice sterile R
07-892-0080	PP / natural	100 - 1,000	1,000 / 5,000	large orifice
07-892-0380	PP / natural	100 - 1,000	100 per rack / 5,000	large orifice
07-892-5380	PP / natural	100 - 1,000	100 per rack / 5,000	large orifice sterile R
07-142-0000	PP / natural	2,500	250 per bag / 2,000	–
07-252-0050	PP / natural	5,000	200 per bag / 4,000	–
07-532-0000	PP / natural	1,000 - 5,000	75 per bag / 6,000	–
07-895-0000	PP / natural	1,000 - 5,000	250 per bag / 2,500	–
07-896-0000	PP / natural	10,000	200 per bag / 2,000	–

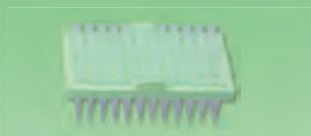
Declaration of conformity for pipette tips without filter

We, nerbe plus Gesellschaft für medizinische und labortechnische Einmalartikel mbH, Daimlerstraße 3, D -21423 Winsen/Luhe, Germany, declare on our own responsibility that our pipette tips, as listed below, are in accordance with DIN 8655, and can be used with the piston-operated pipettes of the following manufacturers:

Compatibility list suitable for pipette tips without filter		07-112-0000	07-122-0073	07-122-0173	07-162-0003	07-162-0303	07-132-0095	07-132-0195	07-163-0005	07-163-0305	07-802-0140	07-802-0340	07-802-0000	07-802-0400	07-812-0340	07-812-0000	07-812-0300	07-862-0080	07-862-0380	07-862-5380	07-882-0040	07-882-0320	07-882-5340	07-892-0080	07-892-0380	07-892-5380
biohit	Proline	Electronic, 10 µl	o								o	o	o	o	o	o	o		o	o	o					
		Electronic, 100 µl		o	o	o	o											o	o	o						
		Electronic, 500 µl						o	o	o	o													o	o	o
		Electronic, 1,000 µl						o	o	o	o													o	o	o
		Variable, 1,000 µl						o	o	o	o													o	o	o
		Variable, 50-200 µl		o	o	o	o											o	o	o	o	o	o			
		Variable, 200-1,000 µl						o	o	o	o													o	o	o
		Multi Channel, 0,5-10 µl	o								o	o	o	o	o	o	o									
		Multi Channel, 100 µl		o	o	o	o											o	o	o	o	o	o			
		Multi Channel, 250 µl		o	o	o	o											o	o	o	o	o	o			
eppendorf		Variable, 0,5-10 µl	o								o	o	o	o	o	o	o									
		Variable, 100-1,000 µl						o	o	o	o													o	o	o
		Research/Reference 0.1-2.5 µl	o								o	o	o	o	o	o	o									
		Research/Reference 0.5-10 µl	o								o	o	o	o	o	o	o									
		Research/Reference 2-20 µl		o	o	o	o											o	o	o	o	o	o			
		Research/Reference 10-100 µl		o	o	o	o											o	o	o	o	o	o			
		Research/Reference 20-200 µl		o	o	o	o											o	o	o	o	o	o			
		Research/Reference 100-1,000 µl						o	o	o	o													o	o	o
gilson		P-2, 0.2-2 µl	o								o	o	o	o	o	o	o									
		P-10, 0.5-10 µl	o								o	o	o	o	o	o	o									
		P-20, 0.2-20 µl	o								o	o	o	o	o	o	o									
		P-100, 10-100 µl		o	o	o	o											o	o	o	o	o	o			
		P-200, 20-200 µl		o	o	o	o											o	o	o	o	o	o			
		P-1000, 100-1,000 µl						o	o	o	o													o	o	o
LabSystems (Finnpipettes)		0.2-2 µl	o								o	o	o	o	o	o	o									
		0.5-10 µl	o								o	o	o	o	o	o	o									
		0.5-10 µl	o								o	o	o	o	o	o	o									
		5-40 µl		o	o	o	o											o	o	o	o	o	o			
		40-200 µl		o	o	o	o											o	o	o	o	o	o			
		200-1,000 µl						o	o	o	o													o	o	o
		Multi Channel, 0.5-10 µl									o	o	o	o												
		Multi Channel, 5-50 µl		o	o	o	o											o	o	o	o	o	o			
Oxford/ Nichiryo		Multi Channel, 50-300 µl		o	o	o	o											o	o	o	o	o	o			
		Benchmate, 0.1-2.0 µl	o								o	o	o	o	o	o	o									
		Benchmate, 0.5-10 µl	o								o	o	o	o	o	o	o									
		Benchmate, 2.0-20 µl		o	o	o	o											o	o	o	o	o	o			
		Benchmate, 10-50 µl		o	o	o	o											o	o	o	o	o	o			
		Benchmate, 10-100 µl		o	o	o	o											o	o	o	o	o	o			
		Benchmate, 20-200 µl		o	o	o	o											o	o	o	o	o	o			
Wheaton		Benchmate, 100-1,000 µl						o	o	o	o													o	o	o
		Calibra, 0.2-2 µl	o								o	o	o	o	o	o	o									
		Calibra, 1-10 µl	o								o	o	o	o	o	o	o									
		Calibra, 2-20 µl		o	o	o	o											o	o	o	o	o	o			
		Calibra, 10-100 µl		o	o	o	o											o	o	o	o	o	o			
		Calibra, 20-100 µl		o	o	o	o											o	o	o	o	o	o			
		Calibra, 100-1,000 µl						o	o	o	o													o	o	o

Our pipette tips are manufactured exclusively from first-choice typeware from well-known chemical companies. They are RNase-, DNase-, DNA- and pyrogen-free. This declaration is valid until further notice for all pipette tips, which have been delivered since 01/01/2003 and is supplemented as soon as results from other manufacturers of pipettes have come in. QMS, January 2003.

Refill system pipette tips



- **Premium surface** high precision and perfect accuracy due premium surface technology
- **environmental-friendly** re-usable packaging, autoclavable, reduced waste and CO² emissions due lesser transport volume
- **Space- and money saving** most economical solution on storage space and transport
- **easy handling** visible colour tone differentiation of refill inserts
- **High reliability** and safety free of RNase, DNase, DNA, Pyrogen, endotoxin and traces of metal

Order no.	Material/ Color	Volume in µl	Unit Box	Shipper Case	Remarks
Inserts					
 07-902-0000	PP / natural	10	2x5 inserts à 96 tips	16,320 pcs.	Premium surface
 07-902-0003	PP / natural	200	2x5 inserts à 96 tips	16,320 pcs.	Premium surface
 07-902-0005	PP / natural	1,250	2x4 inserts à 96 tips	7,680 pcs.	Premium surface
Racks					
 07-912-0000	PP / natural	10	10 racks à 96 tips	10,560 pcs.	Premium surface
 07-912-0003	PP / natural	200	10 racks à 96 tips	10,560 pcs.	Premium surface
 07-912-0005	PP / natural	1,250	8 racks à 96 tips	4,608 pcs.	Premium surface

Declaration of conformity for refill system

We, nerbe plus Gesellschaft für medizinische und labortechnische Einmalartikel mbH, Daimlerstraße 3, D -21423 Winsen/Luhe, Germany, declare on our own responsibility that our pipette tips, as listed below, are in accordance with DIN 8655, and can be used with the piston-operated pipettes of the following manufacturers:

Compatibility list		0.5-10 µl		1-200 µl		100-1,250 µl	
		Refill inserts	Refill racks	Refill inserts	Refill racks	Refill inserts	Refill racks
		07-902-0000	07-912-0000	07-902-0003	07-912-0003	07-902-0005	07-912-0005
eppendorf	Reference Serie 2000 0.1 - 2.5 µl	o	o				
	Reference Serie 2000 0.5 - 10 µl	o	o				
	Reference Serie 2000 2 - 20 µl			o	o		
	Reference Serie 2000 10 - 100 µl			o	o		
	Reference Serie 2000 50 - 200 µl			o	o		
	Reference Serie 2000 100 - 1,000 µl					o	o
	Research Serie 2100 0.1 - 2.5 µl	o	o				
	Research Serie 2100 0.5 - 10 µl	o	o				
	Research Serie 2100 2 - 20 µl			o	o		
	Research Serie 2100 10 - 100 µl			o	o		
	Research Serie 2100 20 - 200 µl			o	o		
	Research Serie 2100 100 - 1,000 µl					o	o
biohit Proline	0.5 - 10 µl	o	o				
	5 - 50 µl			o	o		
	50 - 200 µl			o	o		
	200 - 1,000 µl					o	o
gilson	Pipetman 0.1 - 2.0 µl	o	o				
	Pipetman 0.5 - 10 µl	o	o				
	Pipetman 2 - 20 µl			o	o		
	Pipetman 10 - 100 µl			o	o		
	Pipetman 20 - 200 µl			o	o		
	Pipetman 200 - 1,000 µl					o	o
bandTech	Transferpette 0.5 - 10 µl	o	o				
	Transferpette 2 - 20 µl			o	o		
	Transferpette 10 - 100 µl			o	o		
	Transferpette 20 - 200 µl			o	o		
	Transferpette 100 - 1,000 µl					o	o
Labsystems	(Thermo) Finnpiptette 5 - 40 µl			o	o		
	(Thermo) Finnpiptette 20 - 200 µl			o	o		
	(Thermo) Finnpiptette 100 - 1,000 µl					o	o
Hamilton	SoftGrip 0.2 - 2 µl	o	o				
	SoftGrip 1 - 10 µl	o	o				
	SoftGrip 2.5 - 25 µl			o	o		
	SoftGrip 10 - 100 µl			o	o		
	SoftGrip 100 - 1,000 µl					o	o

		0.5-10 µl		1-200 µl		100-1,250 µl	
		Refill inserts	Refill racks	Refill inserts	Refill racks	Refill inserts	Refill racks
		07-902-0000	07-912-0000	07-902-0003	07-912-0003	07-902-0005	07-912-0005
Mettler	VoluMate 0.1 - 2.5 µl	o	o				
	VoluMate 0.5 - 10 µl	o	o				
	VoluMate 2 - 20 µl			o	o		
	VoluMate 10 - 100 µl			o	o		
	VoluMate 20 - 200 µl			o	o		
	VoluMate 100 - 1,000 µl					o	o
	Labpette 0.5 - 10 µl	o	o				
National	Labnet Labpette 2 - 20 µl			o	o		
	Labnet Labpette 10 - 100 µl			o	o		
	Labnet Labpette 20 - 200 µl			o	o		
	Labnet Labpette 100 - 1,000 µl					o	o
Oxford/Nichiryo	Benchmate 0.5 - 10 µl	o	o				
	Benchmate 2 - 20 µl			o	o		
	Benchmate 10 - 100 µl			o	o		
	Benchmate 20 - 200 µl			o	o		
	Benchmate 100 - 1,000 µl					o	o
Rainin	Pipet-Plus 0.1 - 2 µl	o	o				
	Pipet-Plus 0.5 - 10 µl	o	o				
	Pipet-Plus 2 - 20 µl			o	o		
	Pipet-Plus 10 - 100 µl			o	o		
	Pipet-Plus 20 - 200 µl			o	o		
	Pipet-Plus 200 - 1,000 µl					o	o
Wheaton/Socorex	Calibra 0.2 - 2 µl	o	o				
	Calibra 1 - 10 µl	o	o				
	Calibra 2 - 20 µl			o	o		
	Calibra 10 - 100 µl			o	o		
	Wheaton/Socorex Calibra 20 - 200 µl			o	o		
	Wheaton/Socorex Calibra 100 - 1,000 µl					o	o

Our pipette tips are manufactured exclusively from first-choice typeware from well-known chemical companies. They are RNase-, DNase-, DNA- and pyrogen-free. This declaration is valid until further notice for all pipette tips, which have been delivered since 01/01/2003 and is supplemented as soon as results from other manufacturers of pipettes have come in. QMS, January 2003.



Premium surface filter tips



THE ORIGINAL

High-value properties:

premium surface

■ means, the ultra-smooth surface of the used plastic eliminates the adsorption of DNA and P roteins on the inner walls of the Tip.

None loss of your precious reagent (Taq-Polymerase, Primer etc) and none denaturation of DNA.

■ means, maximum of precision, accuracy and reproducibility are the advantages while working with your pipettes. Certificates of conformity for various pipettes on request.

■ means, enormous reduction of costs of the testing procedure by saving expensive reagent.

■ means, we only use special selected PP -resin of 99,9% purity, without any additives (padding, mould-relase agent, plasticiser, heavy metal). Silicone and silicone-coating are prohibited by itself without saying.

Filter material:

The filters are made of sintered polyethylene and without the addition of chemical binding agents. This causes the filters to release a sample again which has been accidentally overdrawn.

The reduced pore width (10-15 micron) eliminates the risk of cross-contamination by creating an aerosol barrier.

This material is currently the best, which is presently available.



Order no	Material	Volume in µl	Packaging unit bag / carton	Remarks
07-602-0000	PP	10	1,000 / 10,000	premium surface, short
07-602-7300			96 per rack / 4,800	
07-612-0000	PP	10	1,000 / 10,000	premium surface, long
07-612-7300			96 per rack / 4,800	
07-613-0000	PP	10	1,000 / 10,000	premium surface, super slim
07-613-7300			96 per rack / 4,800	
07-622-0000	PP	20	1,000 / 10,000	premium surface
07-622-7300			96 per rack / 4,800	
07-642-0000	PP	100	1,000 / 10,000	premium surface
07-642-7300			96 per rack / 4,800	
07-662-0000	PP	200	1,000 / 10,000	premium surface
07-662-7300			96 per rack / 4,800	
07-672-0000	PP	300	1,000 / 10,000	premium surface
07-672-5300			96 per rack / 4,800	
07-692-0000	PP	1,000	1,000 / 4,000	premium surface
07-692-7300			60 per rack / 2,400	

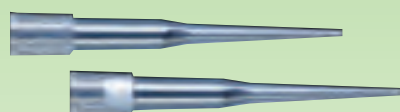
Declaration of conformity for premium surface filter tips

We, nerbe plus Gesellschaft für medizinische und labortechnische Einmalartikel mbH, Daimlerstraße 3, D -21423 Winsen/Luhe, Germany, declare on our own responsibility that our pipette tips, as listed below, are in accordance with DIN 8655, and can be used with the piston-operated pipettes of the following manufacturers:

Compatibility list		07-602-7300	07-612-7300	07-613-7300	07-622-7300	07-642-7300	07-662-7300	07-672-5300	07-692-7300			07-602-7300	07-612-7300	07-613-7300	07-622-7300	07-642-7300	07-662-7300	07-672-5300	07-692-7300
eppendorf	Reference, 0.1 - 10 µl	o	o	o						Hamilton	0.2 - 2 µl	o	o	o					
	Reference, 2 - 20 µl				o						1 - 100 µl	o	o	o					
	Reference, 10 - 100 µl					o	o				2.5 - 25 µl				o	o			
	Reference, 20 - 200 µl					o	o	o			10 - 100 µl				o	o	o		
	Reference, 100 - 1,000 µl								o		30 - 300 µl				o	o	o	o	
	Research, 0.1 - 2.5 µl		o	o							100 - 1,000 µl								o
	Research, 0.5 - 10 µl	o	o	o							Multi-channel, 5 - 50 µl				o	o			
	Research, 2 - 20 µl				o						Multi-channel, 30 - 300 µl						o	o	
	Research, 10 - 100 µl					o	o	o		Matrix Nichiryo/Oxford	2 - 125 µl				o	o	o	o	
	Research, 20 - 200 µl					o	o	o			Benchmark, 0.5 - 10 µl	o	o	o					
	Research, 100 - 1,000 µl								o		Benchmark, 0 - 20 µl				o	o			
	Electronic, 0.5 - 10 µl	o									Benchmark, 10 - 100 µl					o	o		
	Electronic, 5 - 100 µl					o	o	o			Benchmark, 20 - 200 µl					o	o	o	
	Electronic, 2 - 200 µl					o	o	o			Benchmark, 100 - 1,000 µl								o
	Electronic, 50 - 1,000 µl								o		EDP 3, E-MIC-10 0.5 - 10 µl	o	o	o					
	Electronic, 0.2 - 10 µl	o	o	o							EDP 4, E2-25 2.5 - 25 µl				o	o	o		
	Electronic, 5 - 100 µl				o	o	o	o			EDP 5, E2-100 10 - 100 µl				o	o	o		
	Proline, 0.5 - 10 µl	o	o	o							EDP 6, E2-250 25 - 250 µl					o	o	o	
	Proline, 5 - 50 µl				o	o	o				EDP 7, E2-1000 2 - 1,000 µl								o
	Proline, 50 - 200 µl					o	o	o		Rainin	Latch Mode, R2 0.1 - 2 µl	o	o	o					
biohit	Proline, 200 - 1,000 µl								o		Latch Mode, R10 0.2 - 10 µl	o	o	o					
	Transferpette, 0.1 - 10 µl	o	o	o							Latch Mode, R20 2 - 20 µl				o	o			
	Transferpette, 5 - 50 µl				o						Latch Mode, R100 10 - 100 µl					o	o		
	Transferpette, 50 - 100 µl					o	o				Latch Mode, R200 20 - 200 µl					o	o	o	
	Transferpette, 20 - 200 µl					o	o	o	o		Latch Mode, R1000 100 - 1,000 µl								o
	Transferpette, 100 - 1,000 µl								o		Calibra, 10 - 100 µl				o	o	o		
	Single Channel, 0.5 - 20 µl	o	o	o							Calibra, 20 - 200 µl					o	o	o	
	Single Channel, 5 - 40 µl				o						Calibra, 100 - 1,000 µl								o
	Single Channel, 40 - 200 µl					o	o	o	o		Digital, 0.5 - 10 µl	o	o	o					
	Single Channel, 100 - 1,000 µl								o		Digital, 2 - 20 µl				o	o			
	Single Channel, 200 - 1,000 µl								o		Digital, 10 - 100 µl					o	o	o	
	Multi-channel, 5 - 50 µl				o						Digital, 20 - 200 µl					o	o	o	
	Multi-channel, 50 - 300 µl						o	o			Digital, 100 - 1,000 µl								o
finnpipe	Pipetman, P2 0.1 - 2 µl	o	o	o						Socorex	Single Channel, 10 - 200 µl					o	o		
	Pipetman, P10 0.2 - 10 µl	o	o	o							Single Channel, 200 - 1,000 µl								o
	Pipetman, P20 2 - 20 µl				o														
	Pipetman, P100 10 - 100 µl					o													
	Pipetman, P200 20 - 200 µl						o	o	o										
	Pipetman, P1000 100 - 1,000 µl								o										
gilson																			

Our pipette tips are manufactured exclusively from first-choice typeware from well-known chemical companies. They are RNase-, DNase-, DNA- and pyrogen-free. This declaration is valid until further notice for all pipette tips, which have been delivered since 01/01/2003 and is supplemented as soon as results from other manufacturers of pipettes have come in. QMS, January 2003.

Robotic tips



Orifices in comparison



Large Normal



Robotic tips suitable for beckman biomek

RNase-, DNase-, DNA- and pyrogen-free

Order no.	Material	Volume in µl	Packaging unit Carton	Remarks
07-502-0340	PP / blue	20	96 per rack / 4,800	–
07-502-5340	PP / blue	20	96 per rack / 4,800	sterile R
07-502-5320	PP / blue	20	96 per rack / 4,800	sterile R, with filter
07-502-0300	PP / blue	20	96 per rack / 4,800	premium surface
07-502-5300	PP / blue	20	96 per rack / 4,800	premium surface, sterile R
07-502-5330	PP / blue	20	96 per rack / 4,800	premium surface, sterile R, with filter
07-512-0340	PP / natural	50	96 per rack / 4,800	–
07-512-5340	PP / natural	50	96 per rack / 4,800	sterile R
07-512-5320	PP / natural	50	96 per rack / 4,800	sterile R, with filter
07-512-0300	PP / natural	50	96 per rack / 4,800	premium surface
07-512-5300	PP / natural	50	96 per rack / 4,800	premium surface, sterile R
07-512-5330	PP / natural	50	96 per rack / 4,800	premium surface, sterile R, with filter
07-522-0340	PP / natural	250	96 per rack / 4,800	–
07-522-5340	PP / natural	250	96 per rack / 4,800	sterile R
07-522-5320	PP / natural	165	96 per rack / 4,800	sterile R, with filter
07-522-0300	PP / natural	250	96 per rack / 4,800	premium surface
07-522-5300	PP / natural	250	96 per rack / 4,800	premium surface, sterile R
07-522-5330	PP / natural	165	96 per rack / 4,800	premium surface, sterile R, with filter
07-522-1340	PP / natural	250	96 per rack / 4,800	with large orifice
07-522-6340	PP / natural	250	96 per rack / 4,800	with large orifice, sterile R
07-522-6320	PP / natural	165	96 per rack / 4,800	with large orifice, sterile R, with filter
07-525-0340	PP / natural	1,000	72 per rack / 360	–
07-525-5340	PP / natural	1,000	72 per rack / 360	sterile R

Robotic tips

Robotic tips
suitable for Packard Multiprobe*
and beckman biomek FX / NX
RNase-, DNase-, DNA- and pyrogen-free



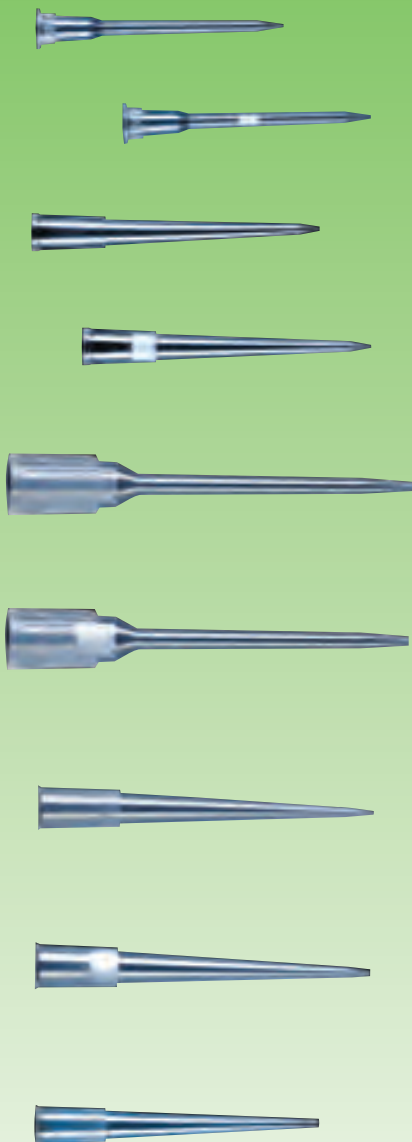
Order no.	Material	Volume in µl	Packaging unit Carton	Remarks
07-502-0347*	PP / black	20	96 per rack / 4,800	–
07-502-5337*	PP / black	20	96 per rack / 4,800	sterile R, with filter
07-502-5347*	PP / black	20	96 per rack / 4,800	sterile R
07-522-0347*	PP / black	250	96 per rack / 4,800	–
07-522-5337*	PP / black	180	96 per rack / 4,800	sterile R, with filter
07-522-5347*	PP / black	250	96 per rack / 4,800	sterile R
07-532-0340	PP / natural	20	96 per rack / 4,800	–
07-532-5340	PP / natural	20	96 per rack / 4,800	sterile R
07-532-5320	PP / natural	20	96 per rack / 4,800	sterile R, with filter
07-532-0300	PP / natural	20	96 per rack / 4,800	premium surface
07-532-5300	PP / natural	20	96 per rack / 4,800	premium surface, sterile R
07-532-5330	PP / natural	20	96 per rack / 4,800	premium surface, sterile R, with filter
07-532-0347	PP / black	20	96 per rack / 4,800	FX Span-8
07-530-0384	PP / natural	0.5 - 30	384 per rack / 19,200	–
07-530-5384	PP / natural	0.5 - 30	384 per rack / 19,200	sterile R
07-535-0300	PP / natural	50	96 per rack / 4,800	premium surface
07-535-5300	PP / natural	50	96 per rack / 4,800	premium surface, sterile R
07-535-5330	PP / natural	30	96 per rack / 4,800	premium surface, sterile R, with filter
07-542-0340	PP / natural	250	96 per rack / 4,800	–
07-542-5340	PP / natural	250	96 per rack / 4,800	sterile R
07-542-5320	PP / natural	165	96 per rack / 4,800	sterile R, with filter
07-542-0300	PP / natural	250	96 per rack / 4,800	premium surface
07-542-5300	PP / natural	250	96 per rack / 4,800	premium surface, sterile R
07-542-5330	PP / natural	165	96 per rack / 4,800	premium surface, sterile R, with filter
07-542-0347	PP / black	250	96 per rack / 4,800	FX Span-8

Robotic tips

Robotic tips

suitable for Beckman Multimek, Zymark and Tecan (GenMate, TeMo, Aquarius)*

RNase-, DNase-, DNA- and pyrogen-free



Order no.	Material	Volume in µl	Packaging unit Carton	Remarks
07-552-0300*	PP / natural	50	96 per rack / 4,800	premium surface
07-552-5300*	PP / natural	50	96 per rack / 4,800	premium surface, sterile R
07-552-5330*	PP / natural	30	96 per rack / 4,800	premium surface, sterile R, with filter
07-562-0300*	PP / natural	200	96 per rack / 4,800	premium surface
07-562-5300*	PP / natural	200	96 per rack / 4,800	premium surface, sterile R
07-562-5330*	PP / natural	200	96 per rack / 4,800	premium surface, sterile R, with filter
07-572-0300	PP / natural	100	96 per rack / 4,800	premium surface
07-572-5300	PP / natural	100	96 per rack / 4,800	premium surface, sterile R
07-572-5320	PP / natural	100	96 per rack / 4,800	sterile R, with filter
07-572-5330	PP / natural	100	96 per rack / 4,800	premium surface, sterile R, with filter
07-582-0300	PP / natural	200	96 per rack / 4,800	premium surface
07-582-5300	PP / natural	200	96 per rack / 4,800	premium surface, sterile R
07-582-5320	PP / natural	200	96 per rack / 4,800	sterile R, with filter
07-582-5330	PP / natural	200	96 per rack / 4,800	premium surface, sterile R, with filter
07-582-0340	PP / natural	200	96 per rack / 4,800	premium surface with large orifice
07-582-5340	PP / natural	200	96 per rack / 4,800	premium surface, sterile R, with large orifice

Robotic tips

*suitable for Tecan: Genesis, Freedom, Evo, Miniprep,
Qiagen/Corbett: CAS 1200, 4200, 4800
PerkinElmer (Packard): Multipose II,
Janus (Multiprobe Head)*

RNase-, DNase-, DNA- and pyrogen-free

Order no.	Material	Volume in µl	Packaging unit Polybag / carton	Remarks
07-590-0300*	PP / natural	20	96 per rack / 4,800	–
07-590-5300*	PP / natural	20	96 per rack / 4,800	sterile R
07-590-5330*	PP / natural	10	96 per rack / 4,800	sterile R, with filter
07-590-0307	PP / black	20	96 per rack / 4,800	–
07-590-5307	PP / black	20	96 per rack / 4,800	sterile R
07-590-5337	PP / black	10	96 per rack / 4,800	sterile R, with filter
07-591-0300*	PP / natural	50	96 per rack / 4,800	–
07-591-5300*	PP / natural	50	96 per rack / 4,800	sterile R
07-591-5330*	PP / natural	50	96 per rack / 4,800	sterile R, with filter
07-591-0307	PP / black	50	96 per rack / 4,800	–
07-591-5307	PP / black	50	96 per rack / 4,800	sterile R
07-591-5337	PP / black	50	96 per rack / 4,800	sterile R, with filter
07-592-0300*	PP / natural	200	96 per rack / 4,800	–
07-592-5300*	PP / natural	200	96 per rack / 4,800	sterile R
07-592-5330*	PP / natural	200	96 per rack / 4,800	sterile R, with filter
07-592-0307	PP / black	200	96 per rack / 4,800	–
07-592-5307	PP / black	200	96 per rack / 4,800	sterile R
07-592-5337	PP / black	200	96 per rack / 4,800	sterile R, with filter
07-593-0300*	PP / natural	1,000	96 per rack / 4,800	–
07-593-5300*	PP / natural	1,000	96 per rack / 4,800	sterile R
07-593-5330*	PP / natural	1,000	96 per rack / 4,800	sterile R, with filter
07-593-0307	PP / black	1,000	96 per rack / 4,800	–
07-593-5307	PP / black	1,000	96 per rack / 4,800	sterile R
07-593-5337	PP / black	1,000	96 per rack / 4,800	sterile R, with filter

* Please ask for minimum quantity.

Robotic tips



Robotic tips

*suitable for Qiagen: 3000, 8000, 9600, 9604;
Euroimmun Analyzer, Abbot en4lisa, m2000,
Bio-Rad Evolis, Biotest Quickstep*

RNase-, DNase-, DNA- and pyrogen-free

Order no.	Material	Volume in µl	Packaging unit Dispenser carton / carton	Remarks
07-597-0000*	PP / natural	300	1,000 / 10,000	–
07-597-0300*	PP / natural	300	96 per rack / 4,800	–
07-597-5300*	PP / natural	300	96 per rack / 4,800	sterile R
07-597-5330*	PP / natural	300	96 per rack / 4,800	sterile R, with filter
07-597-0307	PP / black	300	96 per rack / 4,800	–
07-597-5307	PP / black	300	96 per rack / 4,800	sterile R
07-597-5337	PP / black	300	96 per rack / 4,800	sterile R, with filter
07-598-0000*	PP / natural	1,100	1,000 / 5,000	–
07-598-0300*	PP / natural	1,100	96 per rack / 4,800	–
07-598-5300*	PP / natural	1,100	96 per rack / 4,800	sterile R
07-598-5330*	PP / natural	1,100	96 per rack / 4,800	sterile R, with filter
07-598-0307	PP / black	1,100	96 per rack / 4,800	–
07-598-5307	PP / black	1,100	96 per rack / 4,800	sterile R
07-598-5337	PP / black	1,100	96 per rack / 4,800	sterile R, with filter

* Please ask for minimum quantity.

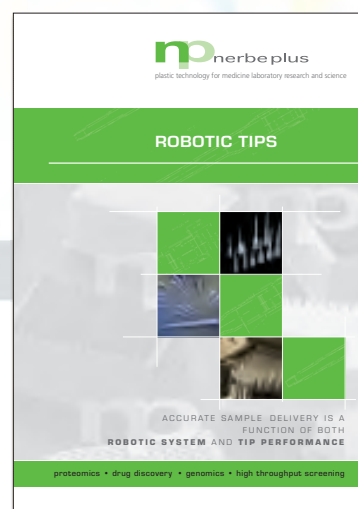
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available for download on our homepage**

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General Downloads





16-channel pipettor premium surface pipette tips in rack of 384 well format

RNase-, DNase-, DNA- and pyrogen-free

The 16-channel pipettor is made of anodized aluminum, high-grade stainless steel and robust plastic. For this reason the pipette is highly resistant to most laboratory chemicals.

Every single cone allows for effortless attachment of the tip and guarantees an airtight fit. The pipette is ergonomically shaped, so that repeated pipetting over a longer time will not cause strain.

In connection with the premium surface disposable materials from **nerbeblOplus** range (premium surface) you achieve the best results and save sample material.

Only this way can you perform long series and most diverse applications effectively, quickly and precisely on a high level with this particularly efficient pipette.



Premium surface tips
after pipetting of a
100 µl sample



Standard tip after
pipetting of a 100 µl
sample



Volume control.
Fixed volume as
well as variable
volume, adjustable
in steps of 0.1 µl



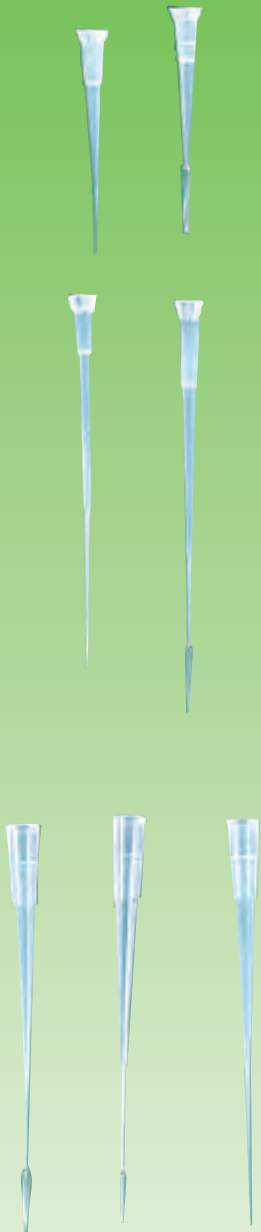
Removal device for
the tips.



Precise attachment
of single pipette
tips.

Order no.	Material Color	Volume	Rack	Packaging unit Box	Carton	Remarks
07-820-0000	white / silver	0.5 - 10 µl	–	1	–	16-channel pipettor for 384 well format
07-821-0000	white / silver	0.5 - 50 µl	–	1	–	16-channel pipettor for 384 well format
07-822-0300	PP / natural	0.5 - 60 µl	384	3,840	19,200	–
07-822-5300	PP / natural	0.5 - 60 µl	384	3,840	19,200	sterile R
07-822-0340	PP / natural	0.5 - 60 µl	384	3,840	19,200	premium surface

Gel-loading pipette tips



gel-loading pipette tips for various pipettes

Order no.	Material	Volume in µl	Packaging unit rack / carton	Suitable for microtiter pipettes
07-902-0300	PP / natural	0.1 - 10 round	200 / 800	Biohit Proline 0.5 - 10 µl PCR
07-922-0300	PP / natural	0.1 - 10 flat, 0.2 mm	200 / 800	Socorex 2 - 20 µl
07-932-0300	PP / natural	0.5 - 10 round	200 / 800	Biohit Proline 0.5 - 10 µl PCR
07-942-0300	PP / natural	0.5 - 10 flat, 0.4 mm	200 / 800	Eppendorf Ultra Micro 0.5 - 10 µl
07-962-0300	PP / natural	5 - 200 round	200 / 800	Biohit Proline Modelle up to 200 µl
07-972-0300	PP / natural	5 - 200 flat, 0.4 mm	200 / 800	Eppendorf Modelle up to 100 µl
07-982-0300	PP / natural	5 - 200 flat, 0.2 mm	200 / 800	Gilson P20 / P100 / P200 Brand Socorex Modelle up to 200 µl Labsystems

nerbe plus gel-loading pipette tips in autoclavable racks are suitable to load SDS page-protein gels, horizontal agarose and DNA sequencing gels for exact pipetting of smallest amounts of samples in the lower µl range (restriction enzyme digest, nick translation, enzyme assay, immunoprecipitation and DNA sequencing reaction).

nerbe plus gel-loading pipette tips are made of inert, hydrophobic polypropylene, are free of metallic ions, RNase, DNase and DNA and are autoclavable up to +121 °C.

nerbe plus gel-loading tips are suitable for all piston-operated pipettes of leading manufacturers.

Universal container

Universal tubes

Universal beakers

g erm count in milk

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Universal container with spoon	08.2
Universal container.	08.3
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Universal beakers and bottles.	08.5
Mailing system for germ count	08.6
Mailing system for germ count in milk	08.7



Universal container with spoon

standard hygienic or sterile R



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag/ carton	Remarks
08-002-2004	PP	16 x 100	12	1,000 / 1,000	with screw cap, PE, brown, fitted
08-002-6004	PP	16 x 100	12	100 / 1,000	with screw cap, PE, brown, fitted, sterile R
08-022-2004	PP	20 x 76	15	1,000 / 1,000	with screw cap, PE, brown, fitted
08-022-6004	PP	20 x 76	15	100 / 1,000	with screw cap, PE, brown, fitted, sterile R
08-122-2004	PP	25 x 107	30	500 / 500	with screw cap, PE, brown, fitted
08-122-6004	PP	25 x 107	30	100 / 500	with screw cap, PE, brown, fitted, sterile R
08-221-2005	PS	22 x 67	20	250 / 1,000	with plug, PE, blue, fitted

Universal container

standard hygienic or sterile R



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
02-352-1000*	PP	16 x 100	12	1,000 / 1,000	with screw cap, PE, natural, enclosed
02-531-2006*	PS	22 x 90	30	100 / 1,000	with screw cap, PE, white, fitted
02-552-1000*	PP	25 x 107	30	500 / 500	with screw cap, PE, natural, enclosed
08-222-1000	PP	20 x 76	15	1,000 / 1,000	with screw cap, PE, natural, enclosed
08-222-6000	PP	20 x 76	15	100 / 1,000	with screw cap, PE, natural, fitted, sterile R
08-400-6000	PP/PS/PE	79 x 28	24	100 / 100	Mailing system, including inner container, PS/PE, sterile R, and transport container, PP/PE, fitted
08-411-6000	PS/PE	70 x 23	24	200 / 200	Inner container with screw cap, PE, fitted, sterile R
08-422-1000	PP/PE	79 x 28	24	100 / 100	Transport container with snap cap, PE, yellow, enclosed

* Also available with fitted cap and sterile R.

Conical based tubes

standard hygienic or sterile R



Content no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
02-401-0000	PS	11 x 75	4	100 / 5,000	Cap no. 02-623-0006
02-411-0000	PS	12 x 75	4.5	525 / 5,250	Cap no 02-633-0000
02-412-0000	PP	12 x 75	4.5	750 / 5,250	Cap no 02-633-0000
02-421-0000	PS	16 x 105	12	2,000 / 2,000	Cap no. 02-673-0000
02-501-2005	PS	17 x 120	15	150 / 750	Screw cap, PE, blue, fitted
02-501-6005	PS	17 x 120	15	150 / 1,050	Screw cap, PE, blue, fitted, sterile R
02-502-7001	PP	17 x 120	15	50 / 500	Screw cap, PE, green, fitted, sterile R
02-531-2006	PS	22 x 90	30	100 / 1,000	Screw cap, PE, white, fitted
02-531-6006	PS	22 x 90	30	100 / 400	Screw cap, PE, white, fitted, sterile R
02-552-1000	PP	25 x 107	30	500 / 500	Screw cap, PE, natural, enclosed
02-552-6000	PP	25 x 107	30	100 / 500	Screw cap, PE, natural, fitted, sterile R
02-572-7001	PP	30 x 115	50	50 / 500	Screw cap, PE, green, enclosed, sterile R
02-582-1001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, enclosed
02-582-6001	PP	30 x 115	50	50 / 450	Screw cap, PE, green, fitted, sterile R

Universal beakers and containers

standard hygienic or sterile R

The brown transparent plastic bottle is light-resistant.

The 2.0-liter bottle is dissembled with a label for identification of the specimen and with instructions for the collection.

A label can be ordered for the 2.7-liter bottle, which is delivered without a label.

The printed ml scale on the 2.0- and 2.7 container informs about the total amount of collected sample.



Order no,	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag/ carton	Remarks
08-602-0030	PP	57 x 75	125	750 / 750	without cap
08-602-1903	PP / PE	57 x 75	125	100 / 500	Graduated, natural, with screw cap, PE, red, enclosed
08-602-6042	PP / PE	57 x 75	125	240 / 240	Graduated, natural, with screw cap, PE, red, sterile R
08-602-6043	PP / PE	57 x 75	125	5 / 200	Graduated, natural, with screw cap, PE, yellow, sterile R
08-602-8051	PP / PE	57 x 75	125	1 / 150	Graduated, natural, with screw cap, PE, red, individually wrapped, sterile R
08-622-0000	PP	61 x 67	125	1,000	Graduated, natural, without snap cap
08-622-1902	PP / PE	61 x 67	125	100 / 500	Graduated, natural, snap cap with spout, PE, red, enclosed
08-703-4023	PE / PP	112 x 97 x 230	2,000	50	24-hour urine container, brown, with label and screw cap, PP, yellow, fitted
08-733-3004	PE / PP	122 x 117 x 250	2,700	30	24-hour urine container, brown, graduated, with screw cap, PP, yellow, fitted
02-978-3006	Paper	76 x 168	2,700	30	Label, white, with black print, with instructions for the collection of 24-hour urine

Mailing system for germ count exactobac-U®

Until now, the germ count in mid-stream or puncture urine could only be accurately performed, if the urine was processed in the laboratory as soon as possible, which meant that the transport of urine specimen conflicted with an accurate germ count.

nerbe plus Exacto Bac-U® tube contains a lyophilized bacteriostat, which prevents germ growth in the urine sample during transport and without causing damage to the germs. Bacterial growth is continuously inhibited for 48 hours and allows an accurate determination of the germ count corresponding to the conditions at the time of specimen collection, even after mailing it.

The examining laboratories can now perform the germ count, differentiation and antibiogram without being pressed for time in proven and generally acknowledged methods.

Since this quantitative assessment has to be preferred over the method using a dip-slide coated with a culture medium, **nerbe plus** ExactoBac-U® tubes with screw caps are the medium of choice.

As a lyophilisate nerbeplus ExactoBac-U® is immediately soluble and practically indefinitely storable.

Instruction:

Fill in nominal volume ($\pm 10\%$), close container and shake overtop several times.



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
08-502-4803	PP/PE	16 x 100	10	1,000 / 1,000	ExactoBac-U® 10, with lyophilized bacteriostat for germ count in urine, with screw cap, PE, fitted
08-522-4003	PP/PE	25 x 107	20	500 / 500	ExactoBac-U® 20, with lyophilized bacteriostat for germ count in urine, with screw cap, PE, fitted
08-512-4003	PP/PE	14.5 x 101	10	1,000 / 1,000	ExactoBac® Urisog 10, with lyophilized bacteriostat for germ count in urine, with screw cap, PE, fitted and with draw up system

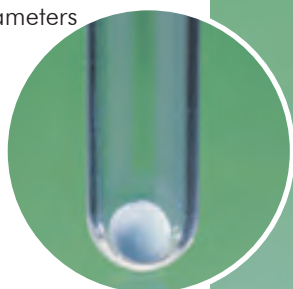
Mailing system for germ count in milk exactobac-L®

ExactoBac-L® was introduced 20 years ago, was developed back then by the Federal Dairy Research Center, Institute for Hygiene in Kiel, and has proven its worth ever since.

Reliable bacteriostasis during sample shipping of milk is guaranteed. The milk specimen stabilizer ExactoBac-L® is the indispensable medium for microbiological examinations. The lyophilized active substance in the tubes is combined with a solubilizer. The active ingredient immediately and completely dissolves in the milk specimen. The stabilizing effect lasts for over 48 hours, and in the case of many relevant germs even longer.

The active ingredient of ExactoBac-L® does not affect the detection of inhibitors in any way. Further, antibiograms for the control of therapy and development of mastitis are absolutely meaningful. The same applies to milk cytological examinations.

Food-chemical parameters are not affected.



exactobac-L® ensures reproducible results when determining the concentration (CFU) of the following microorganisms:

Arcanobacterium (Actinomyces) pyogenes • Bacillus cereus •
Candida albicans • Enterococcus sp. • Escherichia coli • Klebsiella sp.
• Mycoplasma sp. • Mycobacterium sp. • Staphylococcus aureus •
Streptococcus agalactiae • Salmonella sp. • Proteus sp.
• Pseudomonas sp.



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
08-541-0005	PS/PE	16 x 100	10	2,000 / 2,000	ExactoBac-L® 10, with ribbed plug, PE, fitted
08-552-0005	PP/PE	16 x 100	10	1,000 / 1,000	ExactoBac-L® 10, with screw cap, PE, fitted
08-562-0000	PP/PE	30 x 85	30	500 / 500	ExactoBac L® 30, with screw cap, PE, fitted



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Our associated company, DR. FRITZ NERBE, a research and development company for laboratory innovations, develops innovative ideas from daily laboratory practice and turns them into marketable products.

In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents. In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

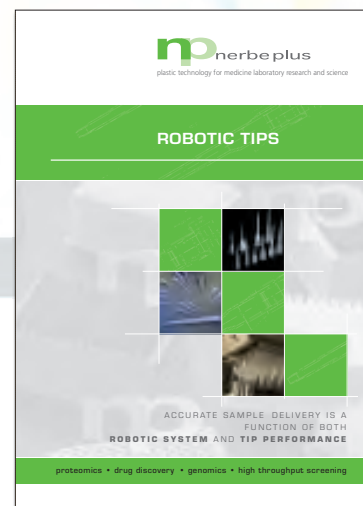


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<http://www.nerbe-plus.de/downloads/>

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General Downloads



Petri dishes
 Special autoclavable bags
 Blender bags
 Dry culture swabs, cotton sticks
 Inoculation loops and needles

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Petri dishes

for bacteriology applications



Order no.	Material	Ø / Height in mm	Packaging unit Polybag / carton	Remarks
09-001-0000	PS	55 x 16	15 / 1,140	without vents
09-011-0000	PS	55 x 16	15 / 1,140	with vents
09-021-0000	PS	92 x 16	20 / 480	without vents
09-031-0000	PS	92 x 16	20 / 480	with vents
09-051-0000	PS	140 x 20	11 / 176	without vents
09-061-0000	PS	140 x 20	11 / 176	with vents

Petri dishes

*Special models
for single use*



Order no.	Material	Ø / Height in mm	Packaging unit Polybag / carton	Remarks
09-081-0000	PS	65 x 14	20 / 720	Contact plate, 10 x 10 mm Grid structure with vents
09-101-0050	PS	92 x 16	20 / 480	half division, with vents
09-231-0000	PS	120 x 120 x 16	14 / 252	with vents
12-531-5106	PS	ø 3	25 / 1,000 / 5,000	L-spreader, sterile R
12-541-5101	PS	ø 3.5	25 / 700 / 3,500	T-spreader, sterile R

Special autoclavable bags

for infectious waste and contaminated laboratory products

Characteristics and advantages of nerbe plus autoclavable bags

- High tear and puncture resistance due to special material mixtures and production steps.
- Extruded tubing with very strong bottom seam. This material resists pressure differences during sterilization process (bags with side seams cannot fulfill these requirements).
- Autoclavable, high temperature resistance up to 131 °C due to the special material consistence.
- Physiologically safe.



Order no.	Material	Size in mm	Thickness in my	Packaging unit Carton	Remarks
09-302-0020	CPP	200 x 300	50	100 / 1,000	high-transparent, without print
09-312-0000	PP	300 x 500	50	1,000	without print *
09-322-0000	PP	400 x 800	50	500	without print *
09-342-0000	PP	500 x 800	50	500	without print *
09-352-0000	PP	600 x 800	50	500	without print *
09-362-0000	PP	600 x 960	50	500	without print *
09-372-0000	PP	700 x 1,100	50	350	without print *
09-383-0010	PP	1,500 x 1,500	50	50	without print *
09-383-0011	HDPE	2,300 x 1,800	60	30	without print *
09-385-0000	PA	–	–	1,000	Security closure for autoclavable bags

* On request all sizes, widths, foil strengths, colours, printing plates and imprints with and without "Bio-Hazard" symbol can be delivered!

Sterilization double bags for infectious waste

The sterilization double bag for infectious waste is a liquid-tight and essentially germ-impermeable inner bag and a gas-permeable transport bag.

The sterilization double bag dramatically improves safety with regard to germs escaping from the closed bag. The sterilization double bag guarantees simple handling and easy disposal after sterilization or disinfection. Inner and outer transport bags are manufactured in separate sets and are connected tightly below the opening. The liquid-tight and germ-impermeable inner bag hangs within the gas-permeable transport bag and is significantly less temperature-resistant.

The transport bag has been equipped with spaced vents making it gas-permeable. Inner and outer

transport bags are made of chlorine-free material. Both wall thicknesses together have a total wall thickness of 0.15 mm, so that the required thickness with regard to instructions for occupational safety from the BGZ (Institute for Safety and Health of the Occupational Accident Insurance) fulfill the terms of safe sealing of infectious waste. Heat-resistant up to 134 °C for 30 minutes in saturated steam atmosphere.



The pathogens causing BSE and CJD belong to a completely new group of pathogens, namely prions.

This is not an organism (it is not even a virus, which at least carries genetic information), but from all the information we know, they are mere protein molecules. Those are surprisingly resistant to heat. Autoclaving in laboratories is usually performed at 121 °C for 15-20 minutes in a saturated steam atmosphere.

These conditions are not sufficient for the inactivation of prions! As described by Wallhäuser (Practice of Sterilization, 1995) and Geertsma (Zentra sterilization, vol. 3, pp. 385 "Sterilization of Prions") autoclaving at 134 °C for at least 30 minutes is necessary for the safe inactivation of prions.

This sterilization double bag has been developed especially for prions, but also for very heat-resistant fungal and bacterial spores.

Order no.	Material	Size in mm	Thickness in my	Packaging unit Carton	Remarks
09-382-0000	PP/LDPE*	600 x 900	150	100	without print
09-385-0000	PA	—	—	1,000	security closure

* Extra innerbag.

Blender bags

sterile R

nerbe plus Homogenization bags are extruded from stable polyethylene, suitable for fast and easy crushing of solid samples in liquid, e. g. in Lab-Blender, even at low temperatures.

nerbe plus Homogenization bags are sterilized by radiation. The use of sterile homogenization bags maintains the stability of the specimen's microbiological status. When working with infectious materials, the homogenization bag can be heat-sealed with a common sealer preventing the escape of aerosols.

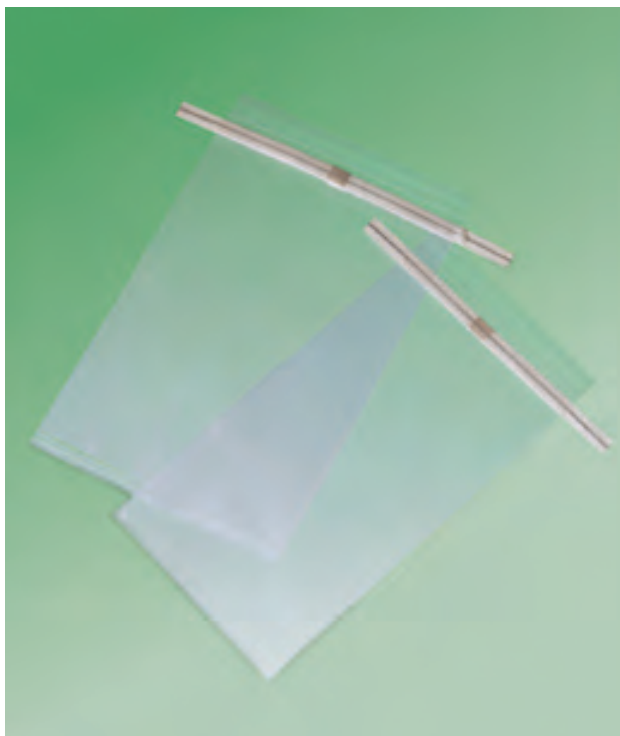
The special closing clip can also be used for secure sealing and reopening of the homogenization bag, without employing sealers. There are special homogenization bags available with filter or side-filters for the Lab-Blender model 400, so that the specimen can be safely separated in the liquid and solid phase. Pore size of our filters is 70 microns.



Order no.	Material	Width / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
09-603-5000	PE	100 x 150	80	25 / 4,500	Lab-Blender 80, sterile R
09-613-5000	PE	180 x 300	400	50 / 2,500	Lab-Blender 400, sterile R
09-613-5030	PE	190 x 300	400	25 / 1,500	Lab-Blender 400 with filter, sterile R
09-613-5040	PE	190 x 300	400	25 / 1,500	Lab-Blender 400 with side-filter, sterile R
09-623-5000	PE	380 x 510	3,500	100 / 500	Lab-Blender 3,500, sterile R
09-681-0000	PVC	–	–	50 / 1,000	Closure clip for 80 ml and 400 ml bag

Sample bags with wire closure

sterile R, free of RNase, DNase, DNA and pyrogene

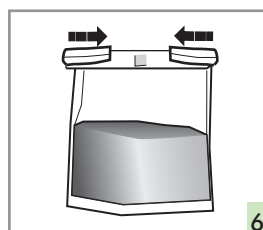
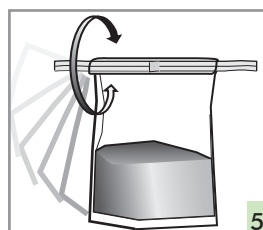
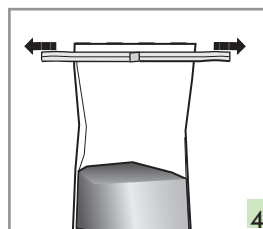
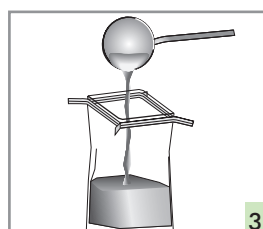
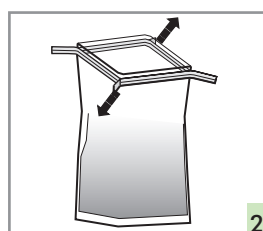
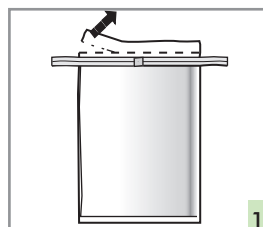


Sterile and elastic sample bags made of polyethylene are particularly suitable as a receptacle of solid, semi-solid and liquid samples and are preferably used for cytological, food and veterinary sampling.

The sterile, ready-for-use sample bags are odorless and liquid-tight as well as unbreakable. Their use prevents the contamination of the sample through sterile tubes or the environment in the application of leaky containers.

Once filled, the size of the bag is limited by the sample's volume, which is simplifying the transport and storage.

The sample bags can be frozen up to -80 °C.



Instructions for sample bags with wire closure

1. Tear the upper film strip along the perforation, the bag's inside is protected from contamination until the sample bag is opened.

2. Pull the sample bag open with the loops on the side, the sample bag's inside is not touched in this course.

3. Fill in the solid, semisolid or liquid sample.

4. Close the sample bag by pulling the outer loops apart, and press out possible excess air.

5. Hold the sample bag on the outer loops and swirl at least 3 to 4 times.

6. By bending the wire closures the sample bag is closed airtight and liquid-tight.

Order no.	Material	Height / Width in mm	Thickness in my	Packaging unit Polybag / carton	Remarks
09-703-5000	PE	110 x 230	70	500	Volume: 500 ml
09-713-5000	PE	140 x 230	70	500	Volume: 700 ml
09-723-5000	PE	140 x 380	70	500	Volume: 1,200 ml
09-724-5000	PE	178 x 380	70	250	Volume: 2,545 ml

Dry culture swabs

sterile R, for single use



CE 0535

Order no.	Size in mm	Tip	Packaging unit Dispenser box / carton	Remarks
09-509-5000	16 x 100	wooden stick	100 / 1,000	with screw cap Cotton / cellulose tip, sterile R
09-511-5007	12 x 165	plastic stick / PS Viscose tip	500 / 2,000	Color code: white*, sterile R
09-516-5009	12 x 165	aluminum stick Viscose tip	500 / 2,000	Color code: orange*, sterile R

* CE-marked.

Due to the certification of **nerbe plus** GmbH according to Annex V of the MDD 93/42/EEC in respect of quality assurance system in the production and sterilization of our dry culture swabs with or without transport medium, **nerbe plus** GmbH fulfills all necessary requirements for the required CE-marking.

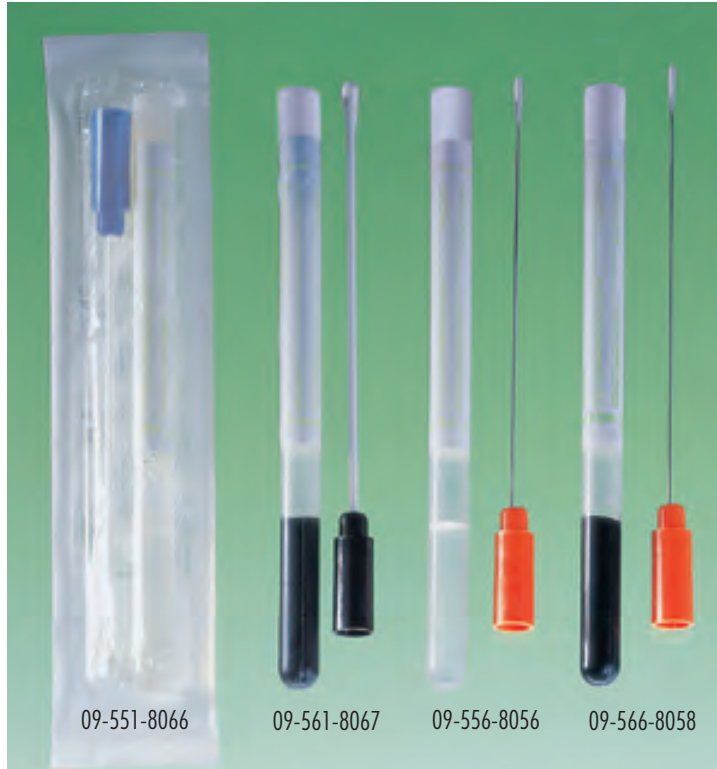
The sterile dry culture swabs with a viscose tip in plastic tubes are used for taking and transporting bacteriological, serological and cytological examination material.

However, the application area should be within a clinic or laboratory, since *Neisseria* and other sensitive microorganisms are subject to

alterations during their transport to the examining laboratory. For a longer transport we recommend our transport swabs.

Transport swabs

individually wrapped, sterile R, in peel pack



CE 0535

Amies transport medium:

Sodium chloride	3.0 g/1,000 ml
Calcium chloride	0.1 g/1,000 ml
Potassium chloride	0.2 g/1,000 ml
Magnesium chloride	0.1 g/1,000 ml
Monopotassium phosphate	0.2 g/1,000 ml
Disodium phosphate	1.15 g/1,000 ml
Sodium thioglycolate	1.0 g/1,000 ml
Agar	5.0 g/1,000 ml
ph range	7.3-7.4

Order no.	Size in mm	Tip	Medium	Packaging unit Dispenser box / carton	Colour code
09-551-8066	12 x 165	plastic stick viscose tip	Amies clear	150 / 1,200	blue*
09-561-8067	12 x 165	plastic stick viscose tip	Amies with charcoal	150 / 1,200	black*
09-556-8056	12 x 165	aluminum stick viscose tip	Amies clear	150 / 1,200	orange*
09-566-8058	12 x 165	aluminum stick viscose tip	Amies with charcoal	150 / 900	orange*

* CE-marked

nerbe plus swabs, which are suitable for the transport of examination material, have a tip made from viscose. In the Amies transport medium also sensitive microorganisms can be stored for normal transport and mailing.

The swabs are in accordance with the regulations laid out in DIN 1659 and DIN 58942-4. For mailing we recommend **nerbe plus** transport containers on page 11.6.

nerbe plus swab transport container is in accordance with the requirements of EN 829 and therefore also with the requirements of the German postal service.

Cotton sticks

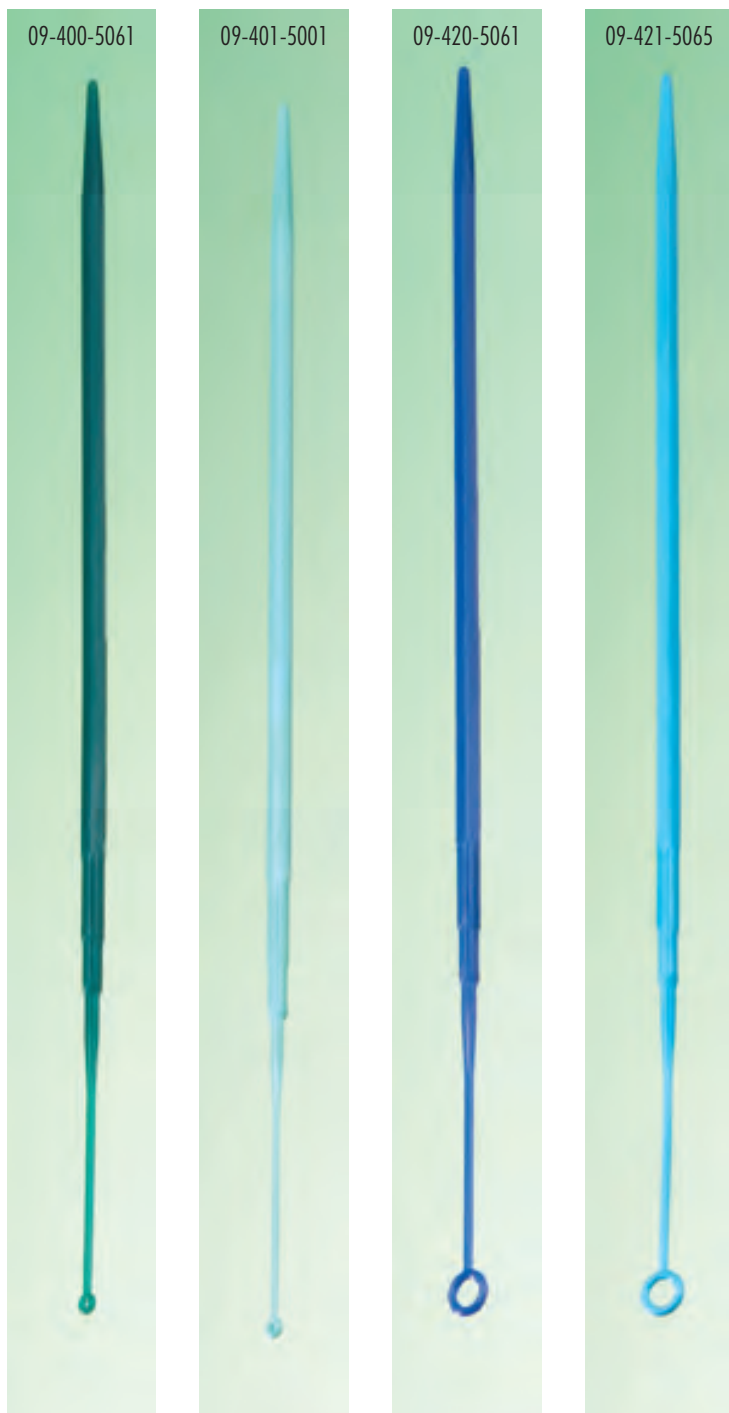
gammasterile R, for single use



Order no.	Size in mm	Tip	Packaging unit Dispenser box / carton	Remarks
09-812-0000	2.5 x 150	plastic stick viscose tip	100 / 4,000	—
09-812-8051	2.5 x 150	plastic stick viscose tip	500 / 4,000	individually wrapped, sterile R, peel pack
09-816-8000	0.9 x 145	aluminum stick viscose tip	300 / 1,800	individually wrapped, sterile R, peel pack
09-819-0101	2.5 x 150	wooden stick cotton/cellulose tip	100 / 10,000	—
09-819-8001	2.5 x 150	wooden stick cotton/cellulose tip	500 / 4,000	individually wrapped, sterile R, peel pack

Inoculation loops and needles

gammasterile R, disposable



The combined **nerbe plus** inoculation loop, inoculation needle makes semiquantitative processing possible and saves a lot of time by the elimination of annealing of the loop between two inoculations as well as improves the hygienic safety at the workplace by avoiding aerosols risking the spreading of germs as was observed in the annealing of platinum inoculation loops.

nerbe plus inoculation loops are made of material with an extremely low tendency to distortion, so the taken volume can be processed safely. It is essential to reproduce the calibrated volumes with high accuracy in the semiquantitative method. The amount of fluid, which remains adhering to the inoculation loop, depends on the viscosity of the surface tension as well as on the individual working method of the inoculants.

Therefore, to achieve optimal results, each series has to be calibrated beforehand and documented in a calibration graph, which is then used as the basis of the semiquantitative assessment. In this way not only the smear, but also the inoculation under the nutrient surface is made easier.

Order no.	Material	Volume in µl	Packaging unit Peel pack / carton	Color code	Remarks
09-400-5061	PS	1	20 / 1,000 / 4,000	dark green	type: rigid, sterile R
09-401-5001	PS	1	20 / 1,000 / 4,000	light green	type: flexible, sterile R
09-420-5061	PS	10	20 / 1,000 / 4,000	dark blue	type: rigid, sterile R
09-421-5065	PS	10	20 / 1,000 / 4,000	light blue	type: flexible, sterile R

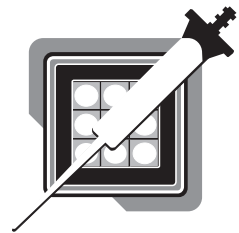


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Our associated company, DR. FRITZ NERBE, a research and development company for laboratory innovations, develops innovative ideas from daily laboratory practice and turns them into marketable products.

In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents. In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

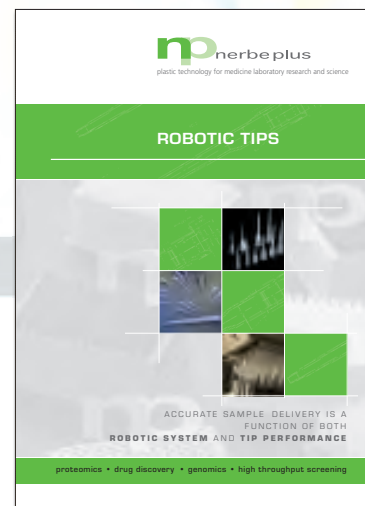


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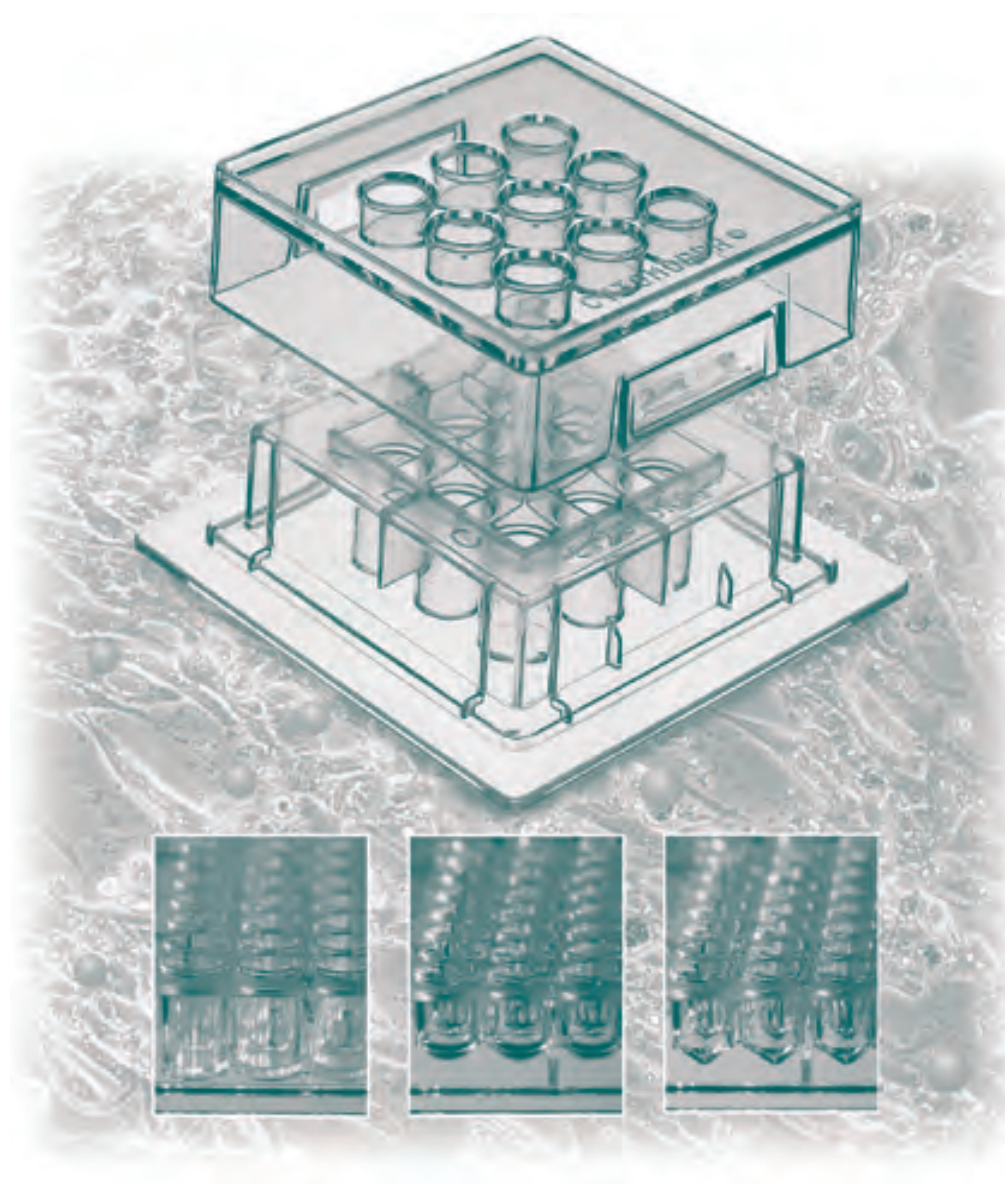
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General Downloads



Microtest and blood group determination plates

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blood grouping plates.	10.4

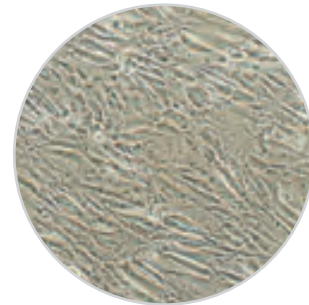


Microtest plates CyTOMORPH

Notes on phase contrast microscopy



without CyTOMORPH



with CyTOMORPH

Living, unstained cells appear in normal bright field microscopy with an extremely low contrast. The reason for this is that the observed objects do not or only slightly weaken the passing light. However, they cause a change in the phase of the light due to their different light refraction, which cannot be perceived by the human eye, since it is only responding to variations in color or brightness.

The phase contrast microscope converts the phase differences caused by the object into amplitude differences.

The cell structures are depicted in gray scales, or also in color when white light is used, depending on

their refractive index. When microtest plates with a well diameter of only a few millimeters is used the phase contrast is disrupted by the liquid's surface (meniscus), which works as a lens in this instance.

CYTOMORPH plates avoid this through prominences of the caps reach into the wells, which are broadened on the top and level the meniscus.

CYTOMORPH plates make a high-contrast depiction of unstained cells with a diameter of only a few millimeters possible. The images show possible insight, which can be achieved with phase contrast microscopic assessments.

The photos on the left were made with Nikon Diaphot TMD, 10-times magnified.

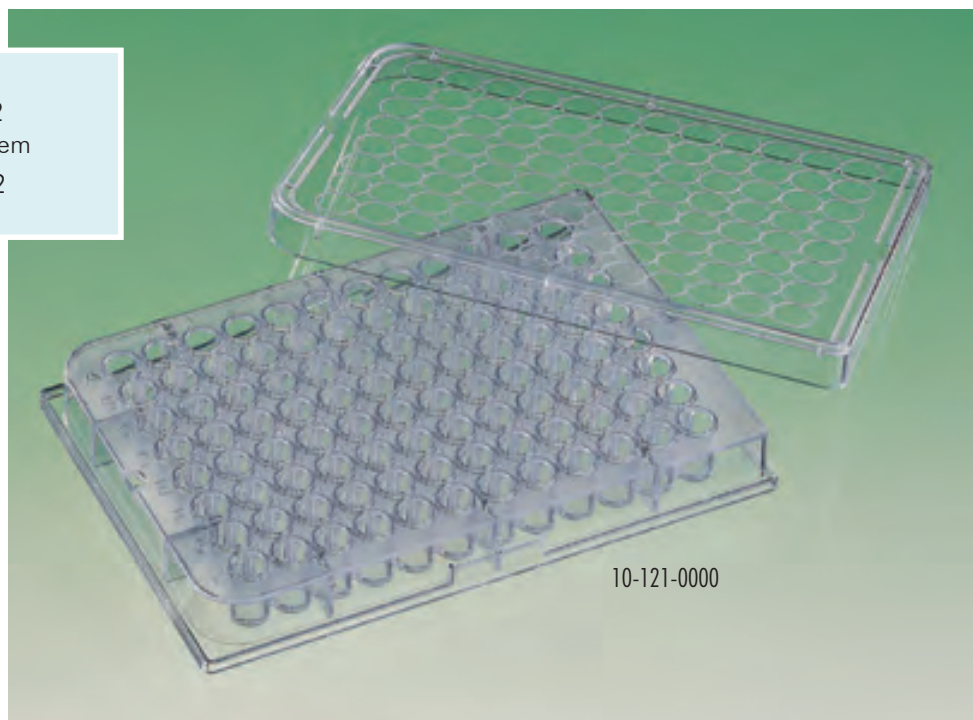
Order no.	Material	Packaging unit Dispenser box / carton	Remarks
10-001-8000	PS	135 / 540	CYTOMORPH-b for cell cultures, 9 wells with cap, suitable for adherent cells, individually wrapped, sterile R
10-021-0000	PS	1	Adapter for CYTOMORPH-b (9 wells) suitable for the following readers: Bio-Tek (Ceres 900 and following models), Molecular Devices (e. g. SpectraMax), Tecan / SLT (e. g. Spectra Image)

Microtiter plates, 96-well system

Technical data:

Stackable, Size: 8 x 12
cavities = 96-well system

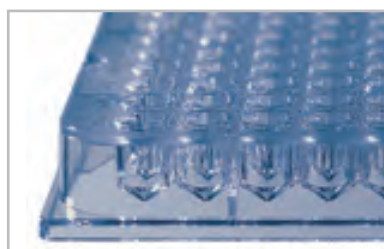
Coding: A-H and 1-12



U-shape
10-101-0000



V-shape
10-111-0000



F-shape
10-121-0000

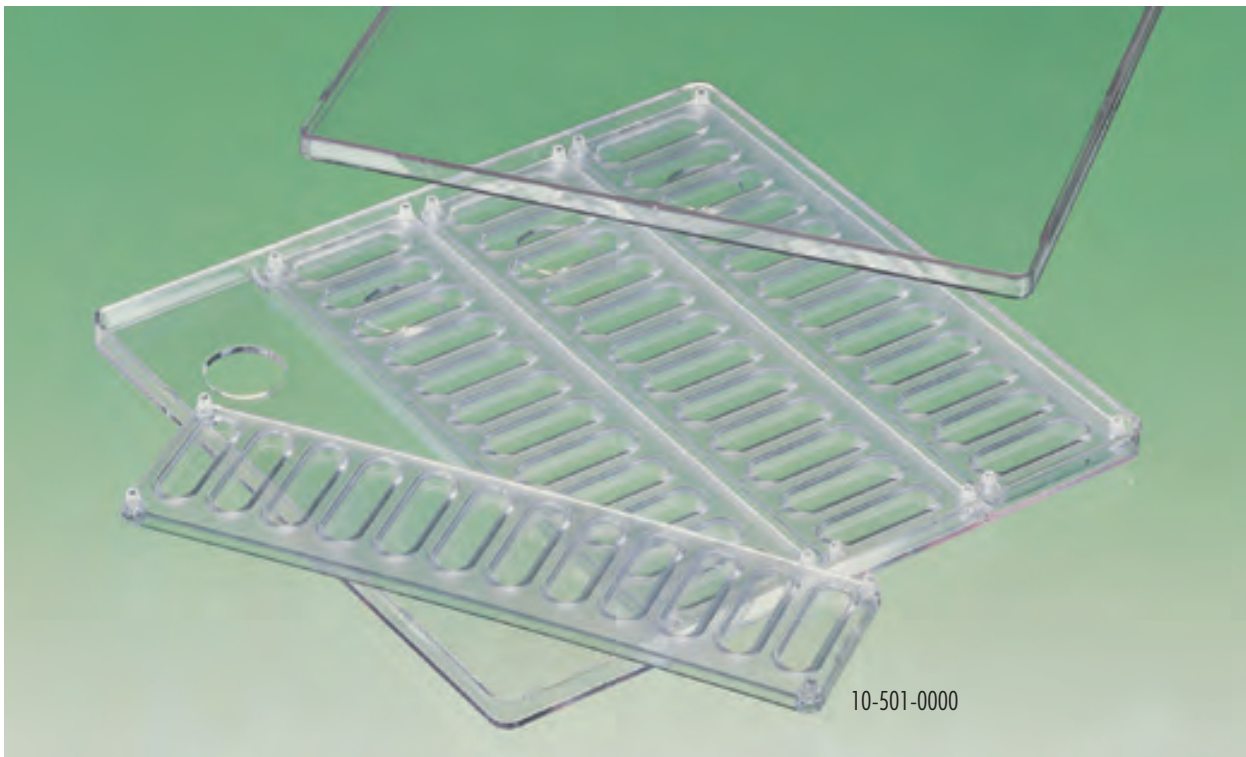


Order no.	Material	Shape	Volume in ml per cavity	Packaging unit Polybag / carton	Remarks
10-101-0000	PS	U	0.300	5 / 100	natural
10-101-5100	PS	U	0.300	5 / 100	natural, sterile R
10-102-0100	PP	U	0.275	10 / 100	natural
10-111-0000	PS	V	0.300	5 / 100	natural
10-111-5100	PS	V	0.300	5 / 100	natural, sterile R
10-112-0100	PP	V	0.200	10 / 100	natural
10-121-0000	PS	F	0.300	5 / 100	natural
10-121-5100	PS	F	0.300	5 / 100	natural, sterile R
10-122-0100	PP	F	0.275	10 / 100	natural
10-131-0000	PS	cover	–	5 / 100	cover, natural
10-131-5100	PS	cover	–	5 / 100	cover, natural, sterile R
04-093-0296	silicon	mat	–	10 / 50	silicon mat for PP-plates, pierceable

blood grouping plates

The blood grouping plates are made of crystal clear polystyrene.

The plates have a small protective edge around each recess as a special feature, which minimizes the possibility of cross - contamination of the samples in each recess. The special surface treatment guarantees an excellent mixture.



Order no.	Material	Size in mm	Packaging unit Polybag / carton	Remarks
10-501-0000	PS	175 x 45	20 / 400	natural, 12 recesses

Mailing containers, envelopes, bags and box

Screw cap containers

Drosophila vials

Flip top containers

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The design of **nerbe plus** mailing containers is based on the requirements of DIN EN 829. This norm is applicable to all packages for mailing or transport of medical and biological examination material. In the production of the mailing containers only those materials are used, which exclude an affection of the sample considering the respective examination purpose.

nerbe plus mailing containers can be sterilized in approved methods. The mailing containers, which are designed for centrifugation, have a guaranteed RCF (relative centrifugal force) of up to 3,000 as laid out in DIN 58 970, part 1.

nerbe plus mailing containers for medical and biological examination material are therefore not only in accordance with the regulations of the German postal service Deutsche Post AG, but also with the high standards expected from a user-friendly and economical product.



Order no.	Material	Color	Ø / Height in mm	Packaging unit Polybag / carton	Remarks
11-022-0100*	PP	natural	30 x 85	500 / 500	Mailing container with absorbent pad
11-023-0100	PE	natural	–	500 / 500	Cap for mailing container
11-152-0100*	PP	natural	30 x 126	300 / 300	Mailing container without absorbent pad
11-162-0100*	PP	natural	30 x 126	300 / 300	Mailing container with absorbent pad
11-163-0100	PE	natural	–	300 / 300	Cap for mailing container
11-212-0100*	PP	natural	44 x 114	250 / 250	Mailing container without absorbent pad
11-222-0100*	PP	natural	44 x 114	250 / 250	Mailing container with absorbent pad
11-223-0100	PE	natural	–	250 / 250	Cap for mailing container

* Also available printed or with label as per customer requirements, please ask for minimum order quantity.

Mailing containers

for medical and biological examination material in accordance with DIN EN 829

Mailing container
Opening diameter: 26 mm



Mailing container
Opening diameter: 26 mm



Mailing container
Opening diameter: 40 mm



Mailing containers

for medical and biological examination material in accordance with DIN EN 829

The shape of **nerbe plus** mailing containers allows easy replacement of the suction insert for multiple use. The containers are made of plastic, which is resistant to ultraviolet radiation for at least 2 years.

nerbe plus mailing containers are provided with a production date and can be used for up to five years.



Order no.	Material	Cap Color	Ø / Height in mm	Packaging unit Polybag / carton	Remarks
11-052-1000*	PE	natural**	34 x 34 x 85	500 / 500	without absorbent pad, cap, PE, enclosed
11-062-1000*	PE	natural**	34 x 34 x 85	500 / 500	with absorbent pad, cap, PE, enclosed
11-112-1006*	PE	white**	30 x 30 x 110	400 / 400	without absorbent pad, cap, PE, enclosed
11-122-1006*	PE	white**	30 x 30 x 110	400 / 400	with absorbent pad, cap, PE, enclosed

* Also available printed or with label as per customer requirements, please ask for minimum order quantity.

** Also available in color.

Mailing containers

for medical and biological examination material in accordance with DIN EN 829

Mailing container
Opening diameter: 28 mm



Mailing container
Opening diameter: 22 mm



Mailing containers

for special and biological examination material

Mailing container in accordance with DIN EN 829



Container for object holders and mailing system for sputum specimen



Order no.	Material	Color	Ø / Height in mm	Packaging unit Polybag / carton	Remarks
11-243-1100	PE	natural	30 x 30 x 180	500 / 500	with absorbent pad for swabs, cap, PE, enclosed
11-272-2100	PE	white	29 x 85	500 / 500	container for object holders
08-422-1000	PP	yellow	79 x 28	100 / 100	Transport container with snap-on cap, PE, yellow, enclosed

Mailing envelopes, bags and box

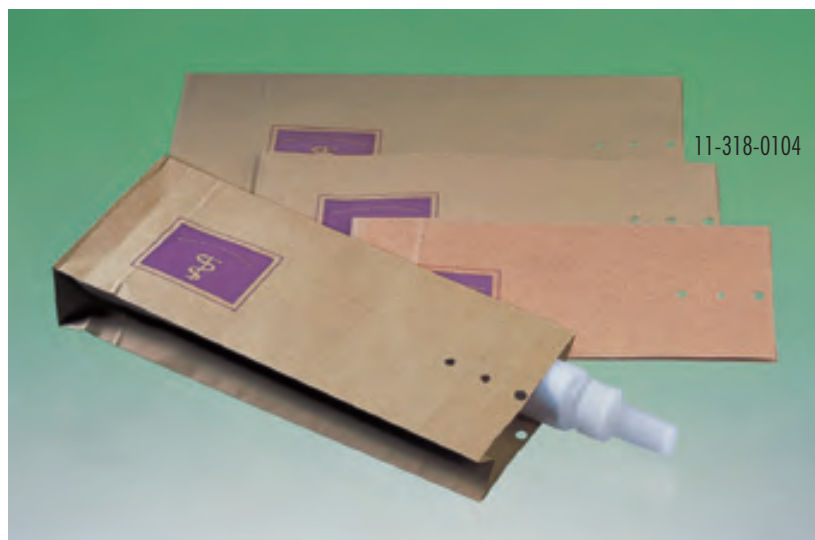
for postal mailing in accordance with DIN EN 829 and P 650 (UN 3373)

nerbe plus mailing envelopes guarantee the safe enclosure of the transport container and are in accordance with the guidelines of DIN EN 829 and the current regulations of the German postal service Deutsche Post AG. In accordance with the DIN the paper used in our production bears a cracking pressure of 230 kPa and a tension length of at least 4,800 m without problems.

The print on **nerbe plus** is a purple Aesculapian staff by default. The closure of **nerbe plus** envelopes is fluted twice and punched in a single row, which guarantees that the envelopes content cannot fall out during transport.

nerbe plus mailing envelopes for medical examination material is made of dark blue PE material and can be reused up to 10 times due to removable address labels, impermeable and recyclable.

nerbe plus mailing envelopes are closed with TAP clips, which guarantees that the content cannot fall out.



Order no.	Material	Color	Height in mm	Packaging unit Carton	Remarks
11-318-0104*	Special paper	brown	100 x 245 x 40	250	with printed Aesculapian staff, purple
11-343-0105	LD-PE film	dark blue	170 x 310	1,000	punched, thickness: 150 my
11-369-0400	Corrugated cardboard	brown	214 x 131 x 33	50	Mailing box according to UN 3373

* Also available with personalised printing.

Screw cap containers

made of polystyrol (PS) and polypropylen (PP)



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
11-511-2001 11-511-6102	PS	30 x 70	40	100 / 700	with cap, PE, red, fitted with cap, PE, red, fitted, sterile R
11-512-2001 11-512-6001	PP	30 x 70	40	100 / 1,000	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-531-2101 11-531-6101	PS	35 x 70	60	70 / 560	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-532-2101 11-532-6101	PP	35 x 70	60	70 / 560	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-561-2101 11-561-6101	PS	50 x 65	100	330 / 330	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-562-2101 11-562-6101	PP	50 x 65	100	380 / 380	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-581-2101 11-581-6101	PS	50 x 100	180	264 / 264	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R
11-582-2101 11-582-6101	PP	50 x 100	180	264 / 264	with cap, PE, green, fitted with cap, PE, green, fitted, sterile R

Containers with screw cap

in accordance with BfArM, EEC and FDA standards

nerbe plus containers with screw caps provide a safe application in pathology.

Due to their wide opening all preparations can be taken up without problems and transported safely with the tightly closing screw cap. The evaporation of the formalin from the closed container is excluded.

Also the application of the containers for secure storage of preparations is possible.

They are in accordance with the regulations of the BfArM, EEC (Directive Commission 90/128 and 92/39) as well as the FDA (U.S. Food and Drug Administration).



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Carton	Remarks
11-622-1000	PP	31 x 48	20	1,000	with cap, PE, blue, enclosed
11-632-1000	PP	39 x 55	35	500	with cap, PE, blue, enclosed
11-642-1000	PP	39 x 74	50	500	with cap, PE, blue, enclosed
11-652-1000	PP	48 x 80	100	250	with cap, PE, blue, enclosed
11-702-1000	PP	90 x 83	500	96	with fitted EPE insert in the cap PP, white, screwed
11-702-6100	PP	90 x 85	500	250	sterile R, cap screwed, without insert
11-712-1000	PP	100 x 165	1,250	36	with fitted EPE insert in the cap PP white, screwed

Multi purpose containers



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
11-802-1150	PP	53 x 88	200	660 / 660	with snap-on cap, PE, enclosed
11-802-6100	PP	53 x 88	200	220 / 220	with snap-on cap, PE, fitted, sterile R
11-822-1100	PP	85 x 100	400	460 / 460	with snap-on cap, PE, enclosed
11-822-6100	PP	85 x 100	400	185 / 185	with snap-on cap, PE, fitted, sterile R
11-842-1100	PP	88 x 130	1,000	250 / 250	with snap-on cap, PE, enclosed
11-842-6100	PP	88 x 130	1,000	80 / 80	with snap-on cap, PE, fitted, sterile R

Drosophila vials



- Clear-transparent, premium grade polystyrene for optimal visibility
- Convenient packaging for easy handling
- Accurate dimensions
- Secure and cost-saving alternative to glass vials

Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit
11-871-0000	PS	20 x 60	20	2,000 pcs. per bag / carton, 44,000 pcs. per pallet
11-881-0021	PS	25 x 95	30	500 pcs. per bag / carton, 20,000 pcs. per pallet
11-881-0051	PS	29 x 95	50	500 pcs. per bag / carton, 15,000 pcs. per pallet
11-531-0000	PS	35 x 70	60	620 pcs. per bag / carton, 9,920 pcs. per pallet
11-561-0000	PS	50 x 65	100	250 pcs. per bag / carton, 6,000 pcs. per pallet
11-581-0000	PS	50 x 100	180	192 pcs. per bag / carton, 4,608 pcs. per pallet
11-881-1000	PU-Foam	Ø 30	–	2,500 pcs. per bag / carton, 50,000 pcs. per pallet
11-881-1001	PU-Foam / barrier to mites	Ø 30	–	2,500 pcs. per bag / carton, 50,000 pcs. per pallet
11-881-1010	Cellulose	Ø 30	–	1,000 pcs. per bag / carton, 36,000 pcs. per pallet

Containers with snap cap

nerbe plus containers are ideal for screening, transport and storage of liquid or solid products. The attached lockable cap guarantees that the container is absolutely air - and liquid-tight.

There is no risk of contamination after the cap has been closed.



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
11-902-2100	PP	33 x 80	60	650 / 650	graduated up to 50 ml
11-912-2100	PP	45 x 80	90	350 / 350	graduated up to 80 ml

Flip top containers

sterile R

nerbe plus flip top container has been specifically developed for the American market and has been approved by official federal institutions (see box) with their particularly high quality standards.

F.D.A.	United States Food and Drug Administration
I.M.S.	United States Interstate Milk Shippers Code
U.S.D.A.	United States Department of Agriculture
U.S.P.	United States Pharmacopeia

The **nerbe plus** flip top container are particularly suitable for sensitive sample material, for example, in food-technological, pharmaceutical and human medical laboratories and are therefore only delivered with closed cap in sterile R (10⁻⁶) condition.

Compatible with all common barcode systems for automated analysis.

Manufactured from inert, non-toxic, food safe polypropylene.



air- and liquid-tight in accordance without pathological findings U.S.D.A. and F.D.A. standards.

Compatible with all Fossomatic and Milko-Scan analysis devices.

Available in various colors (also transparent).

Sterile R (10⁻⁶)



Order no.	Material	Ø / Height in mm	Volume in ml	Packaging unit Polybag / carton	Remarks
11-942-6000	PP	29 x 100	55	500 / 500	sterile R
11-952-6000	PP	29 x 84	50	600 / 600	sterile R
11-972-6000	PP	65 x 52	120	250 / 250	sterile R

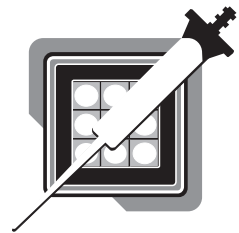


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Our associated company, DR. FRITZ NERBE, a research and development company for laboratory innovations, develops innovative ideas from daily laboratory practice and turns them into marketable products.

In the process, the company is responsible for project management and realization of methods, devices, disposable articles and reagents. In addition, research of property rights, inventor advancement, registration of property rights, realization of inventions and economic utilization are successfully coordinated by experienced institutions and efficient companies.

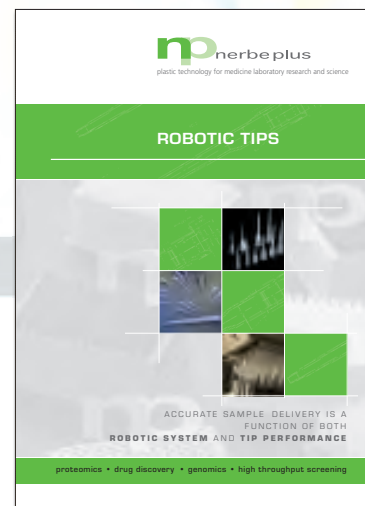


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General Downloads



Pasteur pipettes Spreaders Stirring spatula Straw-pipettes Pipettes

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Pasteur pipettes for single use

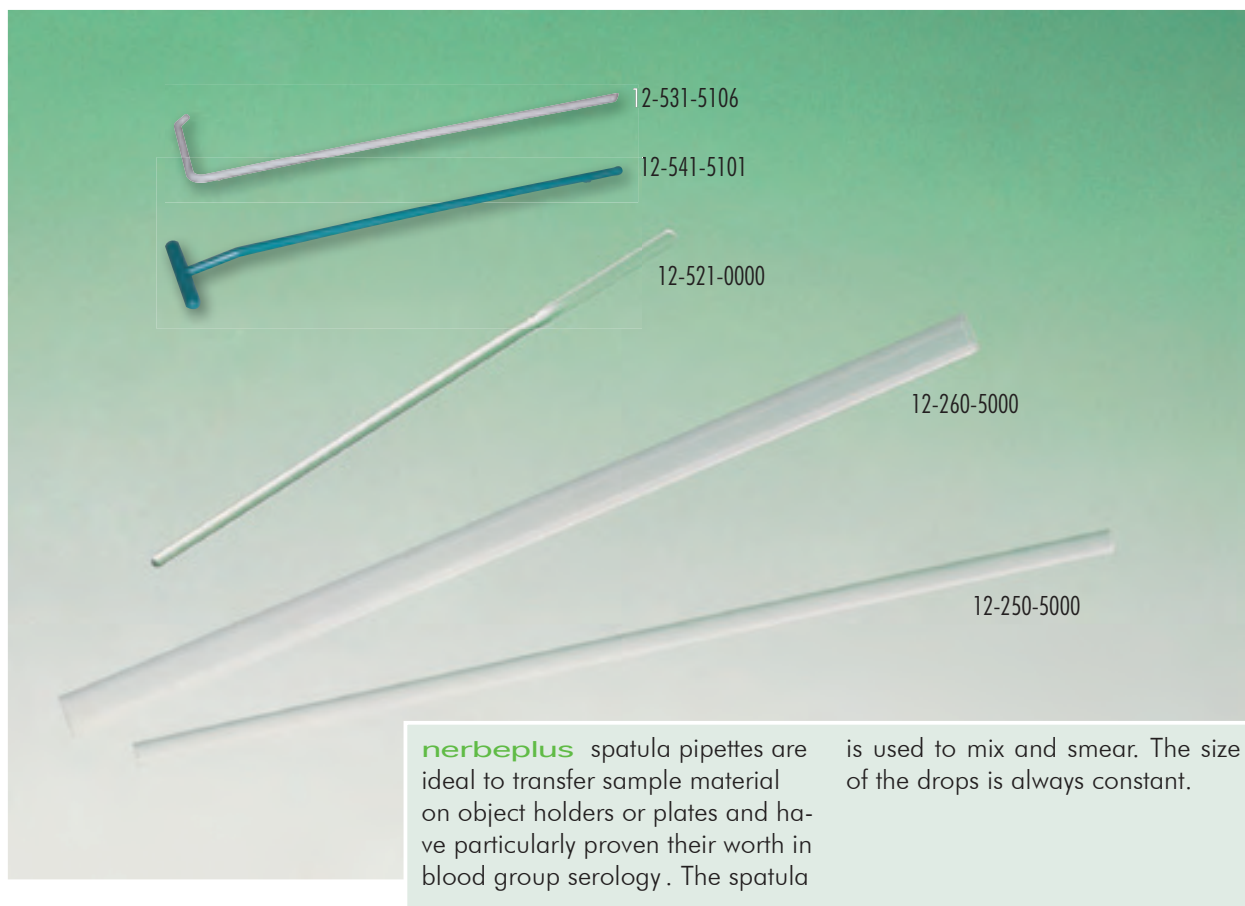


nerbeplus pasteur pipettes can be used in all application areas of a laboratory, where liquids are transfused, in bacteriology, hematology, urine analysis, serum and plasma distribution.

The pasteur pipettes can be transformed into a closed container, which is suitable for transport, through heat sealing of the tip; it is possible to freeze the pipette in closed condition.

Order no.	Material	Length in mm	Volume in ml	Drop size µl mixed with water	Packaging unit Dispenser box / carton	Remarks
12-023-0100	PE	150	1	15	500 / 3,000	with microtip
12-023-8100	PE	150	1	15	400 / 400	individually wrapped, sterile R
12-103-0050	PE	150	1	30	500 / 3,000	graduated
12-103-8100	PE	150	1	30	250 / 1,500	individually wrapped, sterile R
12-113-0050	PE	150	3	45	500 / 3,000	graduated
12-113-8100	PE	150	3	45	250 / 1,500	individually wrapped, sterile R
12-123-0100	PE	230	1.5	40	500 / 3,000	graduated
12-123-8100	PE	230	1.5	40	250 / 250	individually wrapped, sterile R

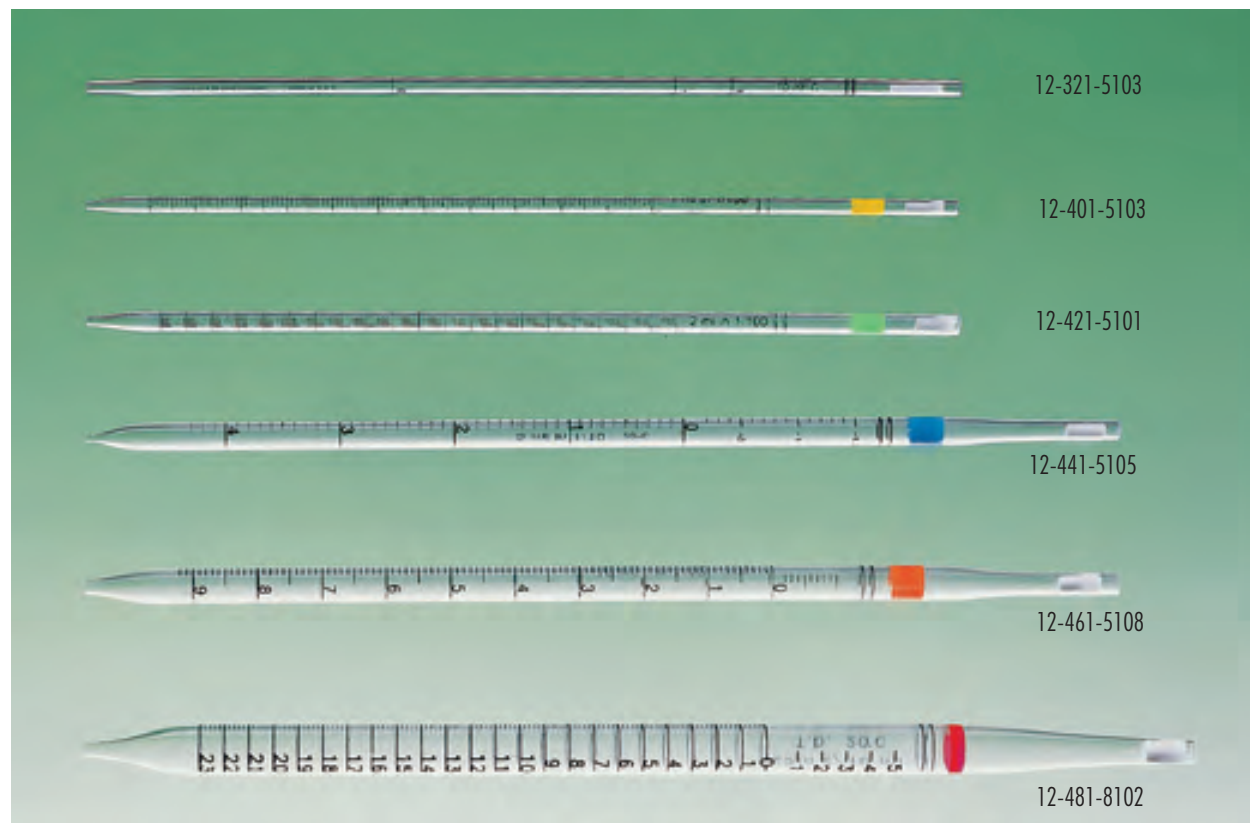
Spreaders, stirring spatula, straw-pipettes



Order no.	Material	Length in mm	Volume in ml	Packaging unit Dispenser box / carton	Remarks
12-521-0000	PS	119	—	500 / 10,000	Stirring spatula
12-250-5000	PE	190	1	25 / 1,000 / 12,000	Straw-pipette, sterile R
12-260-5000	PE	185	5	10 / 300 / 3,600	Straw-pipette, sterile R
12-531-5106	PS	ø 3	—	25 / 1,000 / 5,000	Spreader L-Form, sterile R
12-541-5101	PS	ø 3.5	—	25 / 700 / 3,500	Spreader T-Form, sterile R

Pipettes

sterile R



Order no.	Material	Length in mm	Graduation in ml	Nominal volume in ml	Packaging unit Dispenser box / carton	Color code
12-321-5103	PS	270	0.5 / 1.0 / 1.1	1.1	25 / 1,000	Demeter
12-401-5103	PS	270	1 / 100	1	25 / 1,000	yellow
12-401-8103	PS	270	1 / 100	1	250 / 1,000	single wrapped
12-421-5101	PS	270	1 / 50	2	25 / 1,000	green
12-421-8101	PS	270	1 / 50	2	250 / 1,000	single wrapped
12-441-5105	PS	345	1 / 10	5	25 / 500	blue
12-441-8105	PS	345	1 / 10	5	250 / 500	single wrapped
12-461-5108	PS	345	1 / 10	10	25 / 500	orange
12-461-8108	PS	345	1 / 10	10	200 / 400	single wrapped
12-481-8102	PS	345	2 / 10	25	200 / 200	red, single wrapped

nerbeplus pipettes are extruded from polystyrene and are delivered sterile R with international color codes (ISO standard).

Due to a slight meniscus formation (this allows for a simple and optimal reading) and a high dosage accuracy (better than $\pm 2\%$) only optimally measured values are determined.

For safety reasons all **nerbeplus** pipettes are generally delivered with cotton plugs and sterile.



mpnerbe plus

plastic technology for medicine laboratory research and science

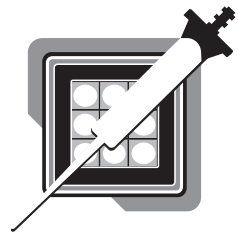


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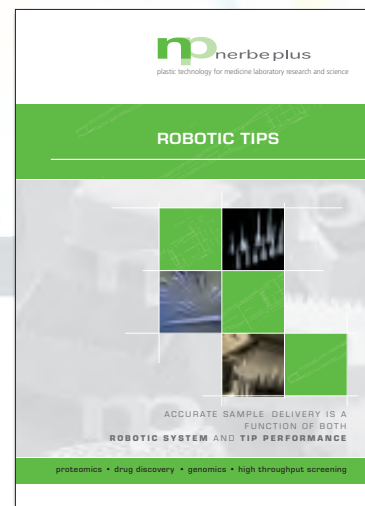


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