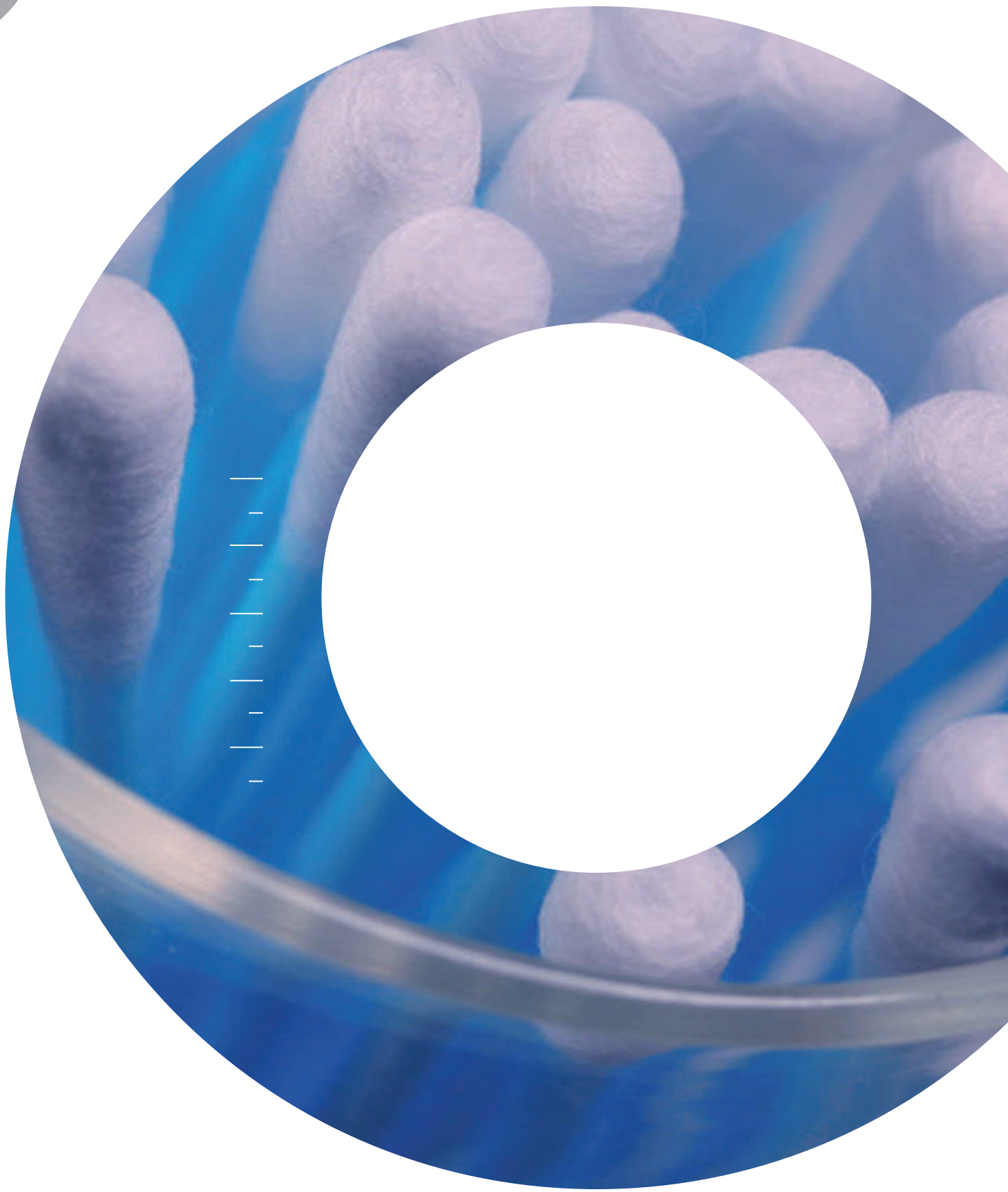


MICROBIOLOGY

deltalab

SWABS FOR MICROBIOLOGICAL SAMPLING

- Swabs are used for biological sampling.
- Specially used for processing samples which, after being coloured, will be analysed by microscopy.
- Also suitable for isolations in culture medium.
- Another important use is its capacity to spread dishes by dissemination techniques (for example for susceptibility testing by Kirby-Bauer or by E-test).

SWABS

The swabs intended for the collection and transport of microbiological samples are considered invasive medical devices for temporary use. As such, they comply with the safety and performance requirements determined by EU Regulation 2017/745 (which will replace Directive 93/42 / EEC on medical devices in May 2020).

According to the rules of classification of this Regulation these swabs belong to class IIa since they are of surgical use.

The **Agencia Española del Medicamento y Productos Santarios** (AEMPS – ON 0318) is the institution who certifies these swabs.

QUALITY STANDARDS – REQUIREMENTS FULFILLED BY SWABS

1. UNE-EN ISO 556-1 Sanitary products sterilisation. Requirements to be designed as "STERILE". Part 1: sterilised sanitary products requirements. Requirements for medical devices in their terminal state.
2. UNE-EN ISO 868-2 Packaging materials for medical devices sterilized in its final phase. Part 2: sterilization wrap. Requirements and test methods.
3.* UNE-EN ISO 11737-1 Sterilization of medical devices. Microbiological methods. Part 1: determination of a population of microorganisms.
4.* UNE-EN ISO 11737-2 Sterilization of medical devices. Microbiological methods. Part 2: Sterility tests performed for the definition, validation and maintenance of a sterilization process.
5.* UNE-EN ISO 11135-1 Sterilization of medical devices. Ethylene oxide. Part 1: requirements for development, validation and control of the routine of a sterilization process of medical devices.
6.* UNE-EN ISO 11137-1 Sterilization of health care products. Radiation. Part 1: requirements for the development, validation, and control of the routine of a sterilization process of PS.
7.* UNE-EN ISO 11137-2 Sterilization of health care products. Radiation. Part 2: setting the sterilization dose.
8. UNE-EN ISO 15223-1 Sanitary products. Symbols to use on labels, labelling and information to be supplied. Part 1: general requirements.
9. UNE-EN ISO 14971 Sanitary products. Application of risk on management.
10. UNE-EN ISO 13485 Sanitary products. Systems of quality management. Requirements for regulatory purposes.

*** These rules apply to sterile swabs.**

SWABS USE ACCORDING TO THE MATERIAL

SWAB HEADS

Are made of various materials, including cotton, polyester and viscose. Each swab contains more or less 0.04g of fiber and its absorption capacity is 0.2-0.3ml, with cotton usually having a better absorption of liquid, although the difference is minimal.

Cotton/Pure Cotton:
Fibrous substance, white and soft. Being a vegetable fiber can include traces of some substance (fatty acids, oils, etc.) that affect labile or demanding microorganisms.

Polyester (Dacron):

For use in direct antigen, PCR, IFA tests. Its drawback is that it contains fatty acids and inhibitory detergents. It has flame retardant properties.

Viscose (Rayon):

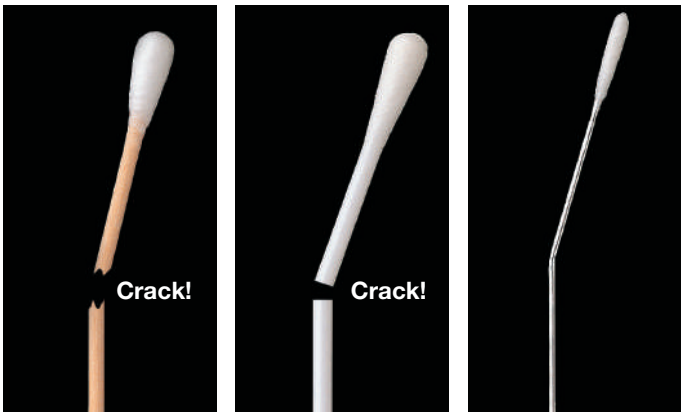
Artificial silk obtained from cellulose. It is a more aseptic material and the one with less effects inhibitory has in bacterial growth. Therefore, it is the best material for cell recovery.

Flocked polyester:

Material with high absorbency and overall sample elution.

SWABS SHAFT

The shaft is available in different materials according to its application: In wood, in polystyrene (breakable without leaving splinters) and also in aluminum.



Wood | Snappable polystyrene | Aluminium

PRESENTATIONS

In bulk:
the non-sterile swabs presented in bags of 100 units.

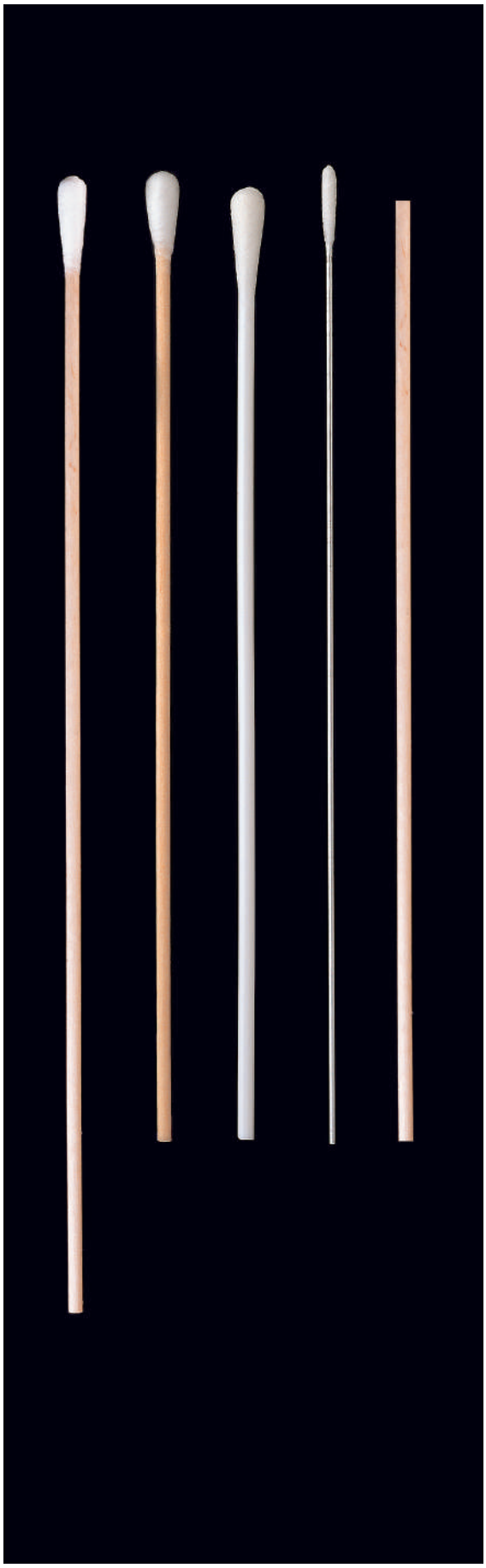
Peel-pack package:
Plastic unit bag - plastic or medical paper - plastic (according to reference).

Flow-pack package:
single bag. Polypropylene bioriented bag.

Package in polypropylene tube:
On the label that acts as a seal, the product is identified.

All sort of package have the following parameters printed on: product code, product description, lot number, expiry date, CE mark, manufacturer name and address, sterilisation method and single use mark ②.

TRADICIONAL SWABS WITHOUT TRANSPORT MEDIUM



Non sterile swabs

Model **300232** is longer than the traditional swabs and is designed for those hard to reach places.

For use in **gynaecology** when taking endocervical cells while using the speculum.

Dimensions:
300232 shaft 200 x 2.5 mm. Tip 5 mm Ø.
300205 shaft 147 mm ± 0.3 mm x 2.2 mm ± 0.3 mm Ø.

Other models dimensions:
Wood: shaft 150 x 2.2 mm (tip Ø ± 5 mm).
Polystyrene: shaft 150 x 2.5 mm (tip Ø ± 5 mm).
Aluminium: shaft 147 x 0.9 mm (tip Ø ± 1.5 mm).

They are supplied in bags of 100 units, excepting code **300205**, supplied bulk.

CE MD Class I

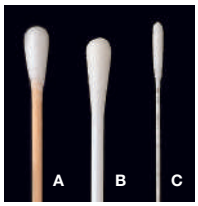
code	shaft material	tip material	case quantity	case weight	case volume
300232	extra large wood (200 mm)	cotton	80 x 100	5.0	0.032
300230	standard wood (150 mm)	cotton	100 x 100	4.65	0.032
300260	polypropylene	cotton	40 x 100	2.5	0.012
NEW **300260.1**	polystyrene	viscose	40 x 100	2.5	0.014
300243	aluminium	cotton	100 x 100	2.8	0.005
300205*	wooden shaft only	-	1 x 1,000	2.5	0.010

* Non CE product.

Expiry date: 60 months

Sterile swabs

Sterile swabs individually wrapped in peel-pack or flow pack, depending on the model. **Sterilized**.
For use when samples do not need to be transported.
It is recommended our transport swabs in tubes when sample transport is required (see next page).



A: Wood
B: Snappable polystyrene
C: Aluminium

code	shaft material	tip material	sterile	package	case quantity	case weight	case volume
300200	wood	cotton	STERILE R	peel-pack	2 x 1,000	2.25	0.029
310200	wood	cotton	STERILE R	flow-pack	2 x 1,000	2.60	0.029
300201	snappable PS	cotton	STERILE R	peel-pack	2 x 1,000	3.52	0.027
300202	snappable PS	viscose	STERILE R	peel-pack	2 x 1,000	3.50	0.029
310202	snappable PS	viscose	STERILE R	flow-pack	2 x 1,000	2.02	0.029
300203	aluminium	cotton	STERILE EO	peel-pack	2 x 1,000	2.40	0.029

Cases per pallet: 54.
Expiry date: 48 month from sterilization date.

1. Flow-pack
2. Peel-pack

Sterile swabs (2 units)

Two Sterile swabs wrapped in peel-pack, depending on the model. **Sterilized by ethylene oxide.**
One swab is designed for cleaning the sampling area.
The other swab is designed for sample collection.
For use when samples do not need to be transported.
It is recommended our transport swabs in tubes when sample transport is required 1,000 peel-packs with 2 units each one per case.

code	shaft material	tip material	sterile	package	case quantity	case weight	case volume
300210	wood	cotton	STERILE EO	peel-pack	1.000	2.65	0.024
NEW 300212.1	snappable PS	viscose	STERILE EO	peel-pack	1.000 peels	2.72	0.025

Cases per pallet: 54.
Expiry date: 48 month from sterilization date.

Medical paper+ plastic

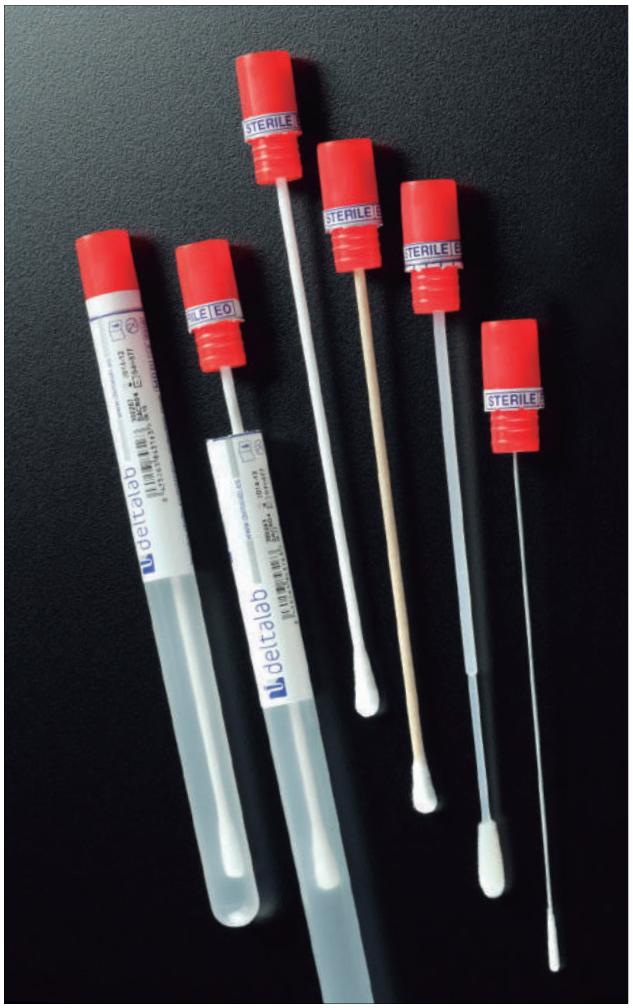
Sterile swab in round tube

Sterile dry swabs supplied in shockproof round bottom polypropylene tube, with a label sealing the cap.
Dimensions of tube: Ø 13 x 165 mm.
Sterilised by ethylene oxide.

code	shaft material	tip material	case quantity	case weight	case volume	cases per pallet
300250	wood	cotton	4 x 500	14.00	0.060	24
300250.1	wood	pure cotton	4 x 500	14.00	0.070	24
300261	snappable PS	cotton	4 x 500	14.90	0.070	24
300252	snappable PS	viscose	4 x 500	15.00	0.066	24
300263	snappable PS	poliéster	4 x 500	15.00	0.062	24
300251	aluminium	cotton	4 x 500	15.00	0.066	24
300253	aluminium	viscose	4 x 500	13.90	0.070	24
300265*	PS	flocked polyester	4 x 500	14.20	0.065	24

Expiry date: 48 month from sterilization date.
"Code not available for sale in Italy, UK and Ireland. Class I Sterile product"

Flocked polyester: material with high absorbency and overall sample elution.



Human DNAsa, RNAsa and DNA free certified swabs, steriles

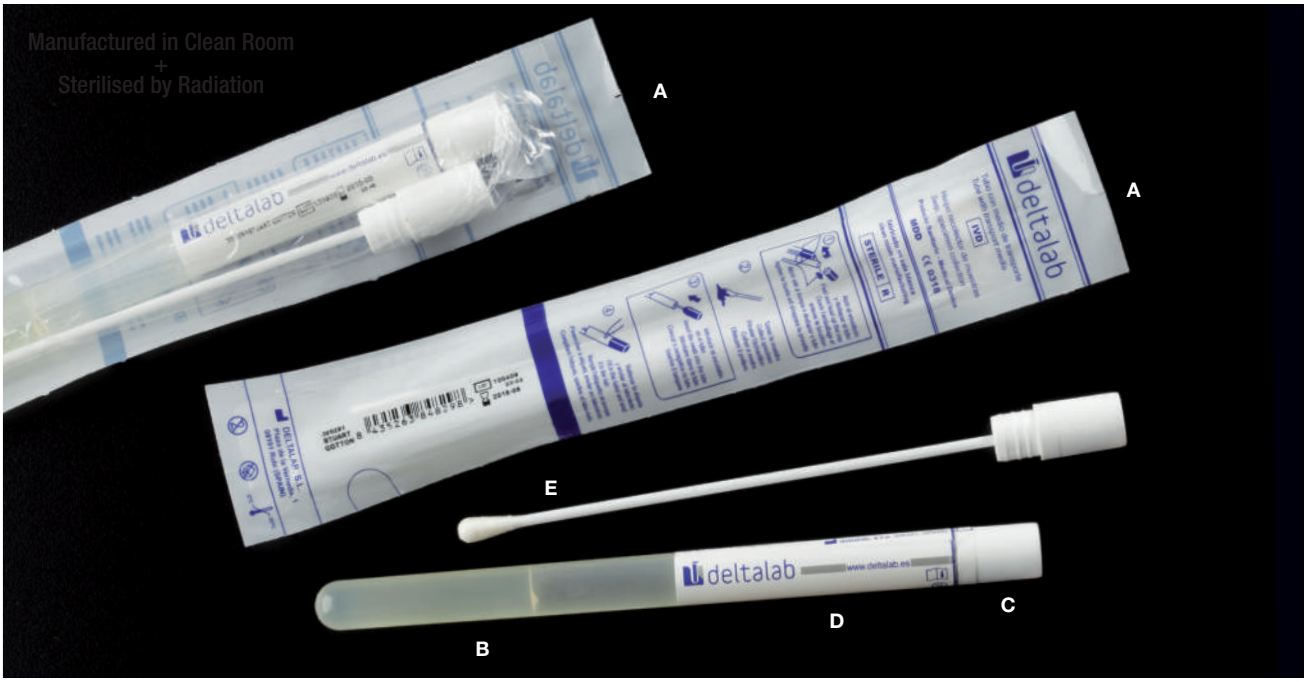
Human DNA free Certified. **Sterilised by ethylene oxyde**.
The swab is supplied in a polypropylene tube, which protects the sample up to the laboratory prior to its analysis. The stick of the swab is made of polystyrene while the head is produced with viscose or polyester according to the code. The tube is labeled indicating code, description, lot, expiry date and providing an identifying area to note down collection details (site, date, etc.). Moreover, the label seals the tube with the cap of the swab, acting like a tamper evident system.

code	shaft material	tip material	selling unit	case quantity	case weight	case volume
300252DNA	polystyrene	viscose	500	4 x 500	14.20	0.070

Expiry date: 48 months from sterilisation date

This product is not considered a medical device and does not carry CE marking because it is not for a subsequent diagnosis of a pathology, but is designed for saliva sampling, for genetic analysis (identification of human DNA) within the scope of the investigation and the forensic market.

TRANSPORT SWABS WITH MEDIA



Safety
- Paper less, plastic peel-pack is an extraordinary safe system to maintain pack integrity and sterility

Comfort
- Space saving
- Collapsible internal case
- Easy wharehouse identification
- Selling unit easy to commercialize
- New standardised pack quantity for all our swabs
- The peel-pack has a small slit at the top to allow easy opening

Information
- Full range of transport medias listed on the package
- Clear dual CE Marking IVD + MDD printed in both, peel-pack and case
- User's guide provided in both, peel-pack and case

Design
- Attractive peel-pack and friendly users guide
- Eye-catching case designed exclusively for swabs
- Drawings of a swab and a tube on both the peel-pack and the case for first sight identificacion

Traceability
- Each single peel-pack is printed with the catalogue number, bar code, lot mumber, expiry date and product description
- Both external and internal cases are also identified with catalogue number, bar code, lot number, expiry date and product description

Environmentally friendly
- Peel pack made of one material only: easy recycling!

CE SWABS

As the two main components of a transport swab have different purposes and different ways of interaction with the patient, both have different CE treatment:

1. **Swab**: for microbiological sample collection. As a surgical invasive product of temporary use, is classified as CLASS IIa product in compliance with EU Regulation 2017/745 (which will replace Directive 93/42/EEC).
2. **Tube with transport media**: container facilitator of survival and transport of biological samples prior to analysis. Classified as in vitro diagnostic IVD (according to EU Regulation No. 2017/746, which will replace Directive 98/79/EC).

TRANSPORT MEDIA

The media used to transport the sample, has the appropriate chemical composition that maintains the bioburden levels with the minimum physiological activity, achieving thus the minimal quantitative and qualitative variation of the sample from the collection to its analysis.

COMPONENTS

Each set consists in a tube and a swab, packed in a peel-pack bag (A) and sterilised by radiation.

(B) **Tube with transport media:** Made of rigid polypropylene with round bottom.
(C) Polyethylene **cap** specially designed to close hermetically; non slippery surface when using gloves.
(D) Coloured **label** in each tube with the following parameters printed: transport media type, sterilisation method, manufacturer name, CE mark, "single use" and "see the instructions" marks, lot number and expiry date, as well as spaces to write patient name, date, time, medical report number, source and kind of sample. The label seals the cap and the tube.
(E) **Swab** fitted in a second cap with a shaft which ends in a tip of synthetic or organic material hardly adhered to the shaft. The cap provides a leakproof seal after sample collection.

Both the peel-pack package and the label of the tube are printed with the following information: transport media type, sterilization method, manufacturer name, CE mark, "single use" and "see the instructions" marks, lot number, and expiry date. Peel pack also includes bar code.

Amies. Sterile

It is the universal means for transporting bacteria in microbiological samples. It is a modification of the medium of Cary Blair, itself of the medium Stuart. Basically, change glycerophosphate for inorganic phosphate and methylene blue for neutral pharmaceutical coal. In addition, it adds calcium and magnesium ions, which help preserve the permeability of the bacterial cell. This media assures the viability of organisms such as:

Neisseria sp.
Haemophilus sp.
Corynebacterium sp.
Trichomonas vaginalis
Streptococcus pyogenes
Streptococcus pneumoniae
Shigella flexneri
Salmonella typhi
Brucella abortus
Enterobacterias, etc.

The presence of charcoal on the media neutralises inhibitors and bacterial toxins, and improves the recovery ratio of *Neisseria gonorrhoeae* and *Vibrio cholerae*

Some microorganisms can resist on the media for up to 3 days, although the recovery of microorganisms is better if cultured in the first 24 hours. Amies transport swabs are available with or without charcoal.
Swabs are sterilised by radiation.
Peel-pack dimensions: 38 x 210 mm.
Expiry date: 30 months.

code	shaft material	tip material	case quantity	case weight	case volume
300287	snappable PS	viscose	6 x 100	9.33	0.059
300285	snappable PS (with charcoal)	viscose	6 x 100	9.37	0.058
300281	aluminium	viscose	6 x 100	9.08	0.056
300281/1	aluminium (with charcoal)	viscose	6 x 100	9.15	0.052

Cases per pallet: 32.

Liquid Amies. Sterile

This is a variation of the traditional Amies media swab where the media is presented on liquid form without agar.
Suitable for conservation of pathogens such as:

Haemophilus sp.
Corynebacterium sp.
Trichomonas vaginalis
Streptococcus pyogenes
Streptococcus pneumoniae
Shigella flexneri
Salmonella typhi
Brucella abortus
Staphylococcus epidermidis
Escherichia coli, etc.

Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides.
Swabs are sterilised by radiation.
Peel-pack dimensions: 38 x 210 mm.
Expiry date: 30 months.

code	shaft material	tip material	case quantity	case weight	case volume
300284	snappable PS	viscose	6 x 100	7.60	0.055

Cases per pallet: 32.

Stuart swabs. Sterile

The modified Stuart media allows the conservation and transportation of a large number of pathological microorganisms, such as:

Neisseria gonorrhoeae
Haemophilus influenzae
Neisseria meningiditis
Bordetella pertusis
Corynebacterium diphteriae
Trichomonas vaginalis
Staphylococcus aureus
Streptococcus sp.
Salmonella sp.
Shigella sp.
etc.

The most unstable organisms will remain viable for up to 24 hours and other for several days. The media is reduced due to the presence of thioglycolate, which difficults the enzymatic reactions of the bacteria.
The multiplication of the bacteria is prevented due to the lack of nitrogen in the media.
Swabs are **sterilised by radiation.**
Dimensions of the peel-pack: 38 x 210 mm.
Expiry date: 30 months from sterilisation date.

code	shaft material	tip material	case quantity	case weight	case volume
300290	wood	cotton	6 x 100	9.40	0.057
300291	aluminium	cotton	6 x 100	9.10	0.057
300295	snappable PS	viscose	6 x 100	8.65	0.060

Cases per pallet: 32.

Cary Blair. Sterile

Cary Blair is another modification of Stuart media.
The glycerophosphate has been substituted by inorganic phosphate since glycerophosphate is a metabolite for some bacteria, so they could grow and disgrise the pathogens amount.
The methylene blue has also been removed and the pH increased to 8.4.
This is a media originally developed for faecal samples but is also used successfully for anaerobic transport, such as:

Neisseria gonorrhoeae
Vibrio cholerae
Vibrio parahaemolyticus
Haemophilus influenzae
Neisseria meningiditis
Bordetella pertusis
Streptococcus pneumoniae
Shigella flexneri
Pasteurella pestis
Campylobacter Spp., etc.

Swabs are **sterilised by radiation.**
Dimensions of the peel-pack: 38 x 210 mm.
Expiry date: 30 months from sterilisation date.

code	shaft material	tip material	case quantity	case weight	case volume
300280	wood	cotton	6 x 100	8.50	0.052
300280.2	snappable PS	viscose	6 x 100	8.50	0.056

Cases per pallet: 32.

Media for virus. Sterile

This viral transport media preserves the specimen during transportation to the laboratory.
Suitable, among many others:

Papiloma
Pseudorrabia
Influenza aviar (H7N1)
Influenza A (H1N1) o H1N1/09 pandemic
Suid herpesvirus, etc.

The media maintains the sample viable for up to 72 hours and in some cases for longer time.
The addition of antimicrobial substances inhibit the growth of bacteria and fungi. Ideal for nasal, pharyngeal, ocular, skin and mucus samples.
Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides.
Swabs are **sterilized by radiaton.**
Expiry date: 18 months.

code	shaft material	tip material	case quantity	case weight	case volume
300297	snappable PS	polyester	6 x 100	7.75	0.057
300294	aluminium	polyester	6 x 100	7.80	0.056

Minimum order quantity: 100 units.
Cases per pallet: 32.

Media for Chlamydia. Sterile

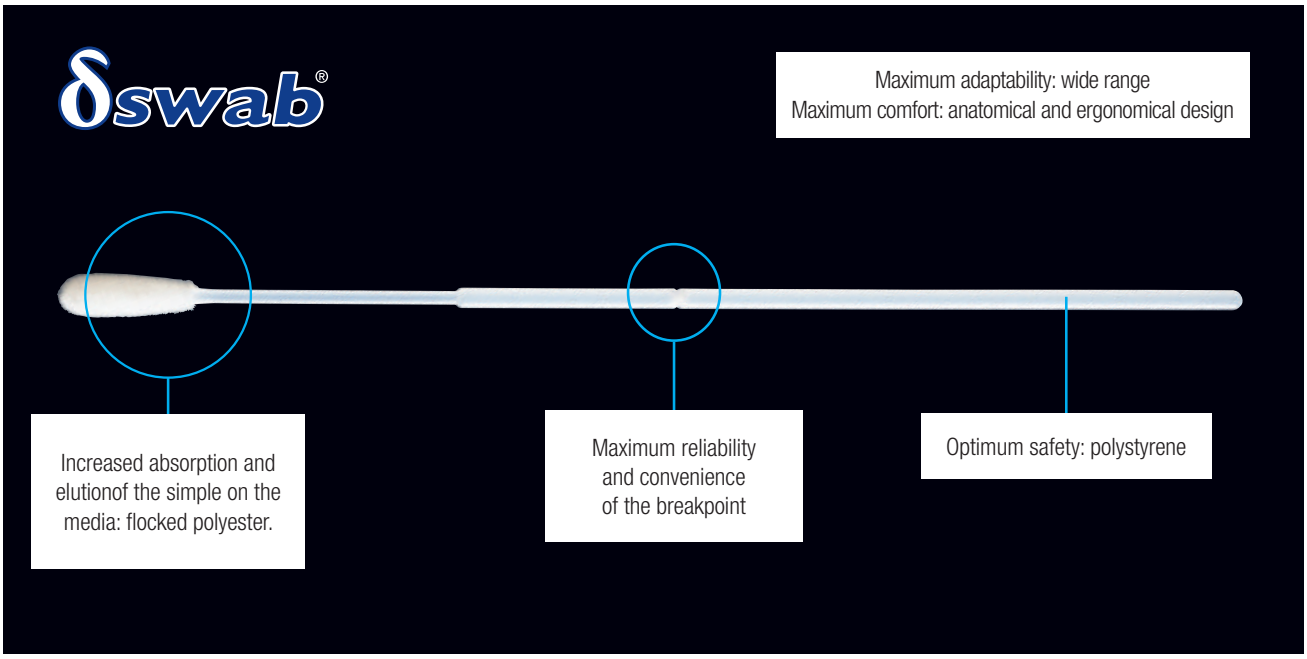
Liquid media, suitable for Chlamydia.
For cervical samples it is recommended to firstly use a dry swab to clear the cervical channel.
Media is supplied in its liquid form, in a sponge, suitable for direct extensions on slides.
Sterilised by radiaton.
Expiry date: 12 months.

code	shaft material	tip material	case quantity	case weight	case volume
300299	snappable PS	polyester	6 x 100	7.80	0.056

Minimum order quantity: 100 units.
Cases per pallet: 32.

FLOCKED SWAB WITH MEDIA

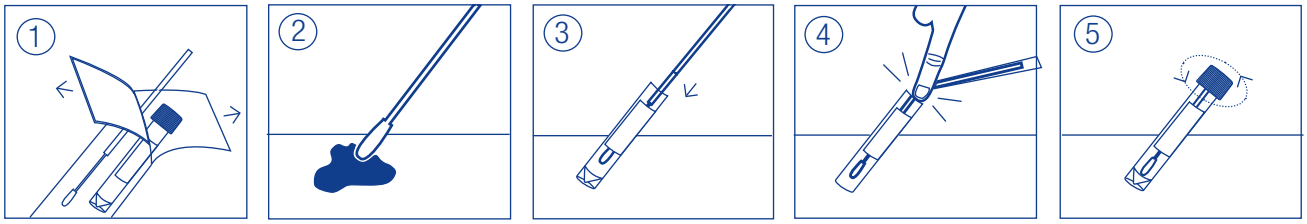
Range of kits for collecting and transporting microbiological samples in liquid medium as well as a new line of enrichment media, endeavouring to make microbiology departments and analysis laboratories' jobs easier.

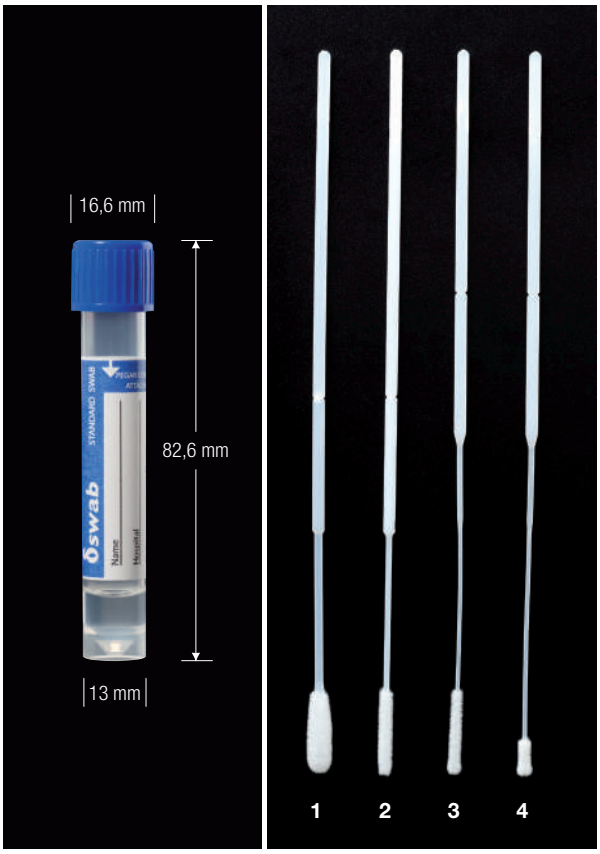


Puritan Quality since 1919 PurFlock ULTRA

Advantages:

- Compatible with the new inoculation automatic systems and sample streaking equipment.
- Compatible with molecular diagnostic techniques.
- Facilitates the collection, transport and subsequent treatment of microbiological samples.
- Greater reliability for sample recovery: high capacity for the absorption and elution of the sample from the polyester flocked swab, developed by Puritan Medical.
- Greater feasibility of the sample as it is totally suspended in the medium.
- Allows different homogeneous innocula to be obtained from the same sample.
- It adapts to any working protocol.
- Minimises any possible cross-contamination: less handling and maximum watertightness.
- More comfort for the user: conical base which facilitates stirring and greater stability of the tube with skirt base.
- More comfort for the patient, due to the softer swab covering.
- Standardises the receipt of samples at the microbiology labs.
- Facilitates manual streaking.
- Allows direct extension on the glass slide for Gram staining, as the medium does not contain agar.
- Ensures proper sample transport and storage both at room temperatures (20ºC - 25ºC) and at refrigeration temperatures (4ºC - 8ºC).





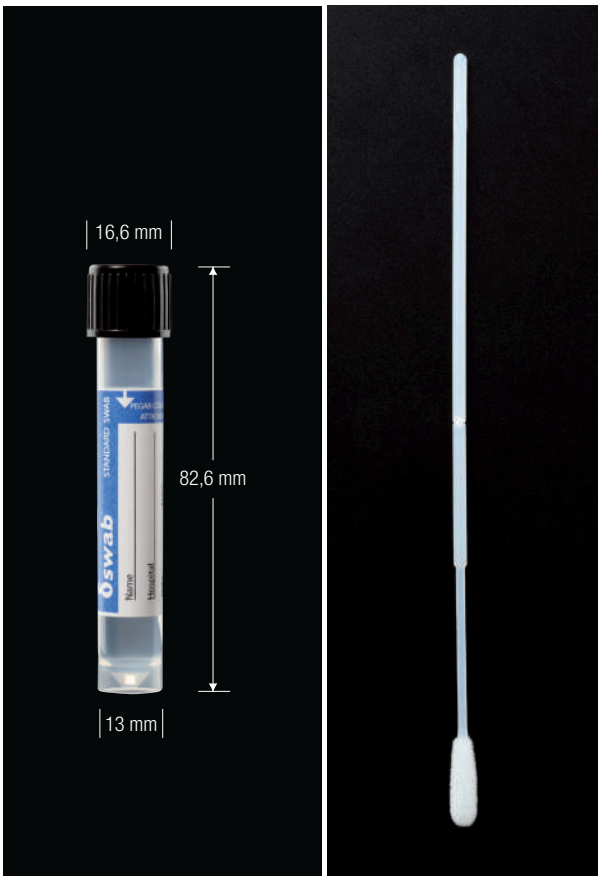
Amies

Particularly suited for microbiological sample collection and transport. It maintains the viability of Aerobes, Facultative Anaerobes and Anaerobes Bacteria for a minimum of 48 hours both at room temperature (20-25ºC) and at refrigeration temperature (2-8ºC) and 24 hours with Fastidious Bacteria, following CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition. Designed both for traditional and automated sample streaking. Compatible with the molecular diagnostic techniques and for direct extension on glass slides.

Peel-pack package.
Sterilised by radiation.

mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
1	**304281***	1	with standard flocked swab		80	6 x 100	5.7	0.056
2	**304282***	1	with standard flocked swab		80	6 x 100	5.6	0.056
3	**304285***	1	with nasopharyngeal flocked swab		100	6 x 100	5.6	0.056
4	**304286***	1	with minitip flocked swab		100	6 x 100	5.5	0.056
NEW 1	**304287***	2	with standard flocked swab		80	6 x 100	6.3	0.056
NEW 1	**304288***	1	with 3 standard flocked swabs		80	6 x 100	6.6	0.052

*Code not available for sale in Italy, UK and Ireland. **Shelf life: 30 months**.



Cary Blair

Specially suited for the collection and transport of faecal samples. Maintains the viability of the fecal pathogens for a minimum of 48 hours without overgrowth, following CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition. Designed for carrying out sample collection directly from the rectum or from faeces.
Designed for traditional and automated sample streaking. Compatible with the molecular diagnostic techniques by PCR and for direct extension on glass slides.

Peel-pack package.
Sterilised by radiation.

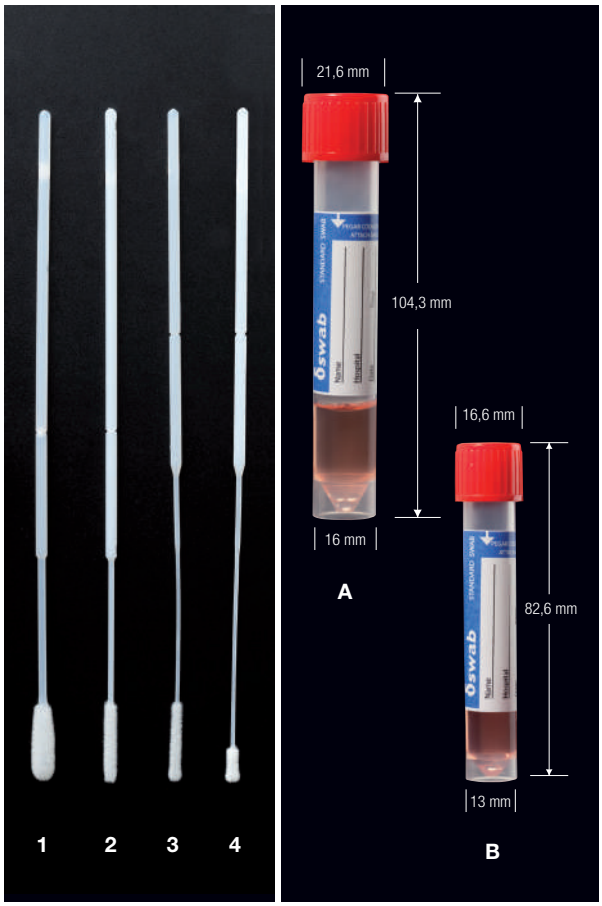
code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
304280*	2	with standard flocked swab		80	6 x 100	6.3	0.056

*Code not available for sale in Italy, UK and Ireland. **Shelf life: 24 months**.

ViCUM®

Particularly suited for collecting and transporting microbiological samples which contain Virus, Chlamydia, Ureaplasma and/or Mycoplasma. Includes antibiotics which inhibit the growth of Bacteria and Fungi; this ensures reliability in terms of sample recovery. Maintains the infectability of viruses for a minimum of 96 hours both at room temperature (20-25ºC) and at refrigeration temperature (2-8ºC), following CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition. Each tube contains glass beads to facilitate cell lysis, sample homogeneousness and maximize the elution of the sample from the swab. Designed for cell cultivation and compatible with molecular diagnostic techniques by quantitative PCR.

Peel-pack package.
Swab sterilised by radiation.



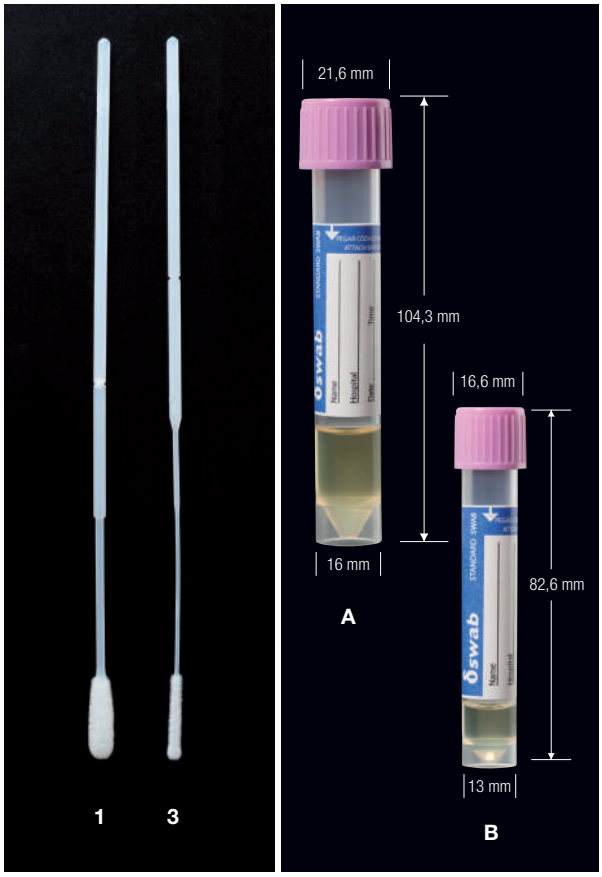
mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
B 1	**304271***	1	with standard flocked swab		80	6 x 60	4.7	0.056
B 1	**304278***	2	with standard flocked swab		80	6 x 60	5.1	0.056
B 2	**304276***	2	with urethral flocked swab		80	6 x 60	5.0	0.056
B 3	**304270***	2	with nasopharyngeal flocked swab		100	6 x 60	5.0	0.056
B 4	**304279***	2	with minitip flocked swab		100	6 x 60	5.0	0.056
A 1	**304273***	3	with standard flocked swab		100	6 x 40	4.8	0.056
NEW A 1	**304273.2S***	3	with 2 swabs (nasopharyngeal and standard)		100	6 x 40	5.09	0.056

*Code not available for sale in Italy, UK and Ireland. **Shelf life: 24 months**.

Virus

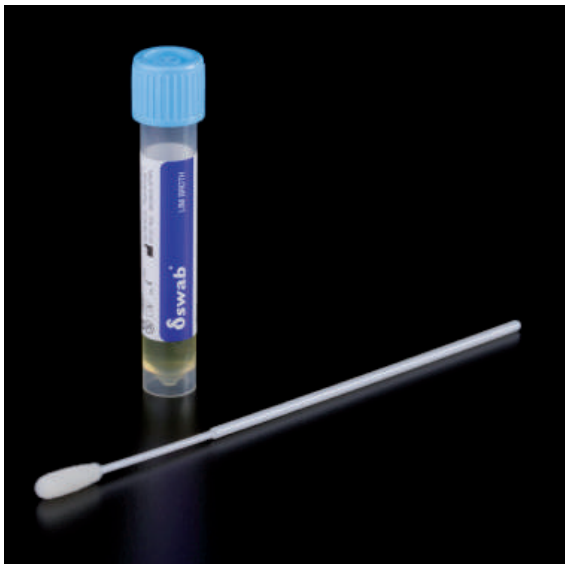
Particularly suited for collecting and transporting microbiological samples which contain viruses. By including antibiotics which inhibit the growth of Bacteria and Fungi, it ensures the trustworthiness of the sample. It maintains the infectability of viruses for up to 96 hours, both at room temperature (20-25ºC) and at refrigeration temperature (4-8ºC), following CLSI Quality Control of Microbiology Transport System: Approved Standard - Second Edition.
Designed for cell cultivation and to be compatible with the molecular diagnostic techniques by quantitative PCR.

Peel-pack package.
Sterilised by radiation.



mod.	code	ml	description	label colour	breakpoint mm	case quantity	case weight	case volume
B 1	**304291***	1	with standard flocked swab		80	6 x 100	5.7	0.056
B 3	**304297***	1	with nasopharyngeal flocked swab		100	6 x 100	5.5	0.056
A 3	**304295***	3	with nasopharyngeal flocked swab		100	6 x 80	7.0	0.056

*Code not available for sale in Italy, UK and Ireland. **Shelf life: 18 months**.



LIM Broth

Selective enrichment medium for Group B Streptococcus, including *S. agalactiae*.
The kit consists of a tube with conical bottom, skirted and screw cap, containing 2 ml LIM broth, and a standard flocked swab.
Packed in peel pack (plastic peel pack) with the basic information and instructions printed.
Swab sterilised by radiation.

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
304212*	2 ml LIM	82.6	16.6	6 x 60	4.00	0.056

*Code not available for sale in Italy, UK and Ireland. **Shelf life: 16 months**.

ENRICHMENT MEDIA

Selenite

Enrichment medium that inhibits the proliferation of bacterial microbiote.
It is particularly suited for isolating *Salmonella* from faecal samples, food and/or water. It is used as an enrichment medium for clinical and industrial samples.
Easy and practical.
Compatible with manual and automated systems of microbiological culture and suitable for molecular assays.

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
304210	2 ml Selenite	82.6	16.6	6 x 60	2.84	0.025

Shelf life: 24 months

Thioglycolat

Widely used enrichment media for isolation and cultivation of Aerobic and Anaerobic Bacteria and Fastidius Bacteria.
It is used as an enrichment media for clinical samples.
Easy and practical. Compatible with manual and automated systems of microbiological culture and suitable for molecular assays.

code	description	tube height mm	cap Ø mm	case quantity	case weight	case volume
304211	2 ml Thioglycolat	82.6	16.6	6 x 60	2.84	0.025

Shelf life: 12 months

CRYOINSTANT: Cryoplashes for the conservation of microbiological strains

Sterile system for the conservation of microbiological strains (for example, fungi in sporulation phase), consisting of a 2 ml cryovial with a skirt, containing 25 glass cryoprobes treated with cryoprotectants that act as a preservative.
Thanks to this system we can:

- Have a **perfect means of conservation**
- Obtain up to **25 replicas** of the same microbial generation to use progressively for years
- Facilitate the inoculation of the bacteriological medium, since each pearl is equivalent to a culture
- Dispense with the defrosting of the entire vial every time we extract a pearl
- Avoid the formation of ice crystals in recovery
- **Minimize the risk of cross contamination**
- **Save freezer space**

COMPONENTS

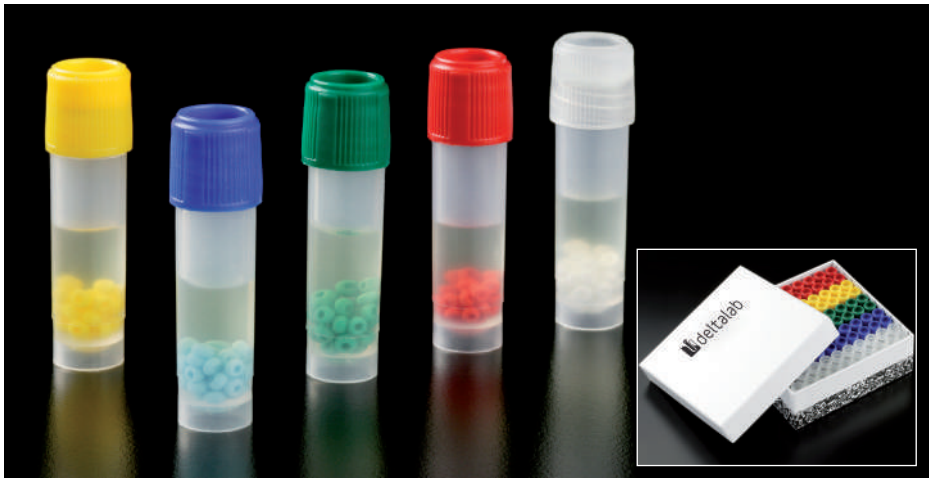
The cryovial made of polypropylene is external thread. Resists up to **–190 ºC**. Long skirt cap, with silicone gasket To facilitate the classification of samples, our cryovials are offered with caps and pearls in five different colors (except code 409113/6, which is an assortment).

This system allows rapid identification of the sample, differentiating each type of microorganism according to the color of the cap and the pearl. The cryovials are presented in a rack of 100 units, made of cardboard resistant to **–100 ºC.** Each box is supplied labeled with indication of code, batch, expiration, cap color, and shrink wrap.
Rack dimensions: 150 x 150 x 55mm. (More information about these boxes on page 214. See code M-600).
Expiration: 48 months from the date of manufacture. **Sterile by autoclave**.

HOW TO USE

1. Take the strain sample using a handle (see our handles on page 34 and 35)
2. Inoculate the vial by inserting the handle into the preservative medium
3. Close the vial and shake it gently so that the strain is impregnated in the cryoplashes
4. Extract the remaining preservative medium using a Pasteur pipette (see our Pasteur pipettes between pages 198-203)
5. Close the cryovial and freeze
6. Every time we want to reproduce the strain, we will extract one of the cryoplashes with a handle or a clamp
7. We will place the cryoperle on a plate with medium, ensuring that the entire surface of the pearl enters in contact with the medium

code	cap and pearls colour	case quantity	case weight	case volume
409113/1	○	100	0.59	0.002
409113/2	●	100	0.59	0.002
409113/3	●	100	0.59	0.002
409113/4	●	100	0.59	0.002
409113/5	●	100	0.59	0.002
409113/6	assorted: 5 colours x 20 cryovials	100	0.59	0.002

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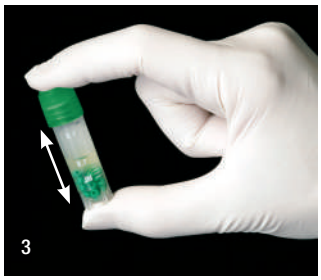
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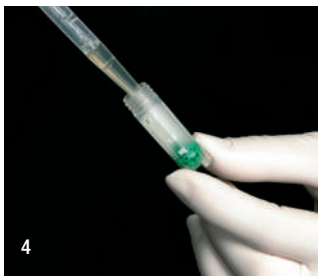
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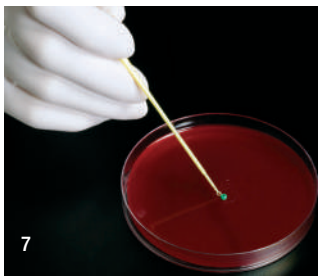
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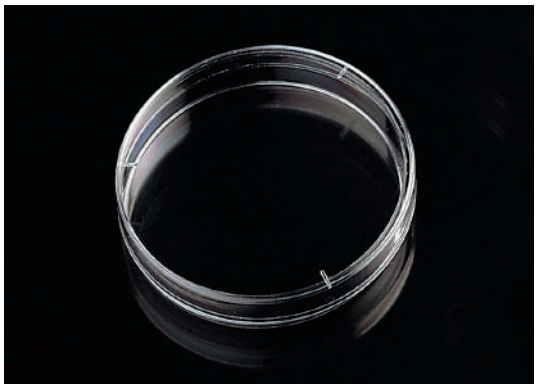
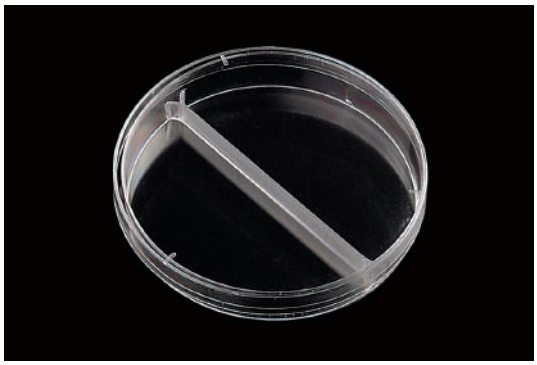


90 x 14 mm Petri Dish

Made in polystyrene. Supplied in groups of 20 units, packaged in heat sealed bags.
Code **200200** is **aseptic.** Code **200209** is **sterile by radiation.**
Suitable for automatic filling machines.

code	description	sterile	aseptic	case quantity	case weight	case volume	cases per pallet
With three vents							
200200	Ø 90 x 14 mm	no	✓	25 x 20	7.32	0.071	28
200209	Ø 90 x 14 mm	STERILE R	✓	25 x 20	7.39	0.071	28
Not vented dishes, for the cultivation of anaerobic							
200200.4	Ø 90 x 14 mm	non	✓	25 x 20	6.90	0.071	28



90 x 14 mm Petri Dish, two compartments

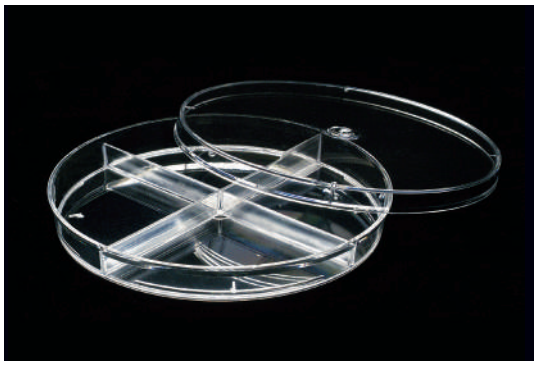
Made in polystyrene.
Aseptic.
With three vents.
Supplied in groups of 20 units, packaged in heat sealed bags.
Suitable for automatic filling machines.

code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200202	Ø 90 x 14 mm 2 compartiments	✓	25 x 20	7.75	0.072	28

90 x 14 mm Petri Dish, three compartments

Made in polystyrene.
Aseptic.
With three vents.
Supplied in groups of 20 units, packaged in heat sealed bags.
Suitable for automatic filling machines.

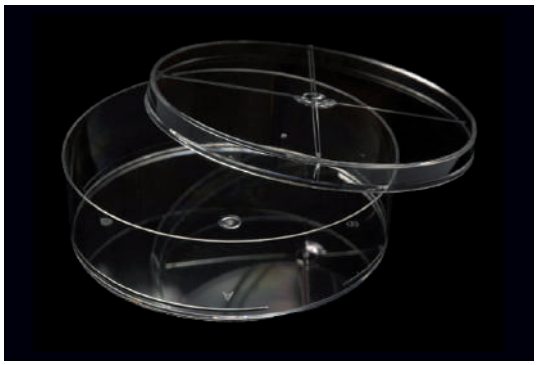
code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200203	Ø 90 x 14 mm 3 compartiments	✓	25 x 20	7.82	0.070	28



90 x 15 mm Petri Dish, four compartments

Made in polystyrene.
Aseptic.
Vented.
Supplied in groups of 24 units, packaged in heat sealed bags.
Suitable for automatic filling machines.

code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200210	Ø 90 x 15 mm 4 compartiments	✓	24 x 25	9.20	0.077	28



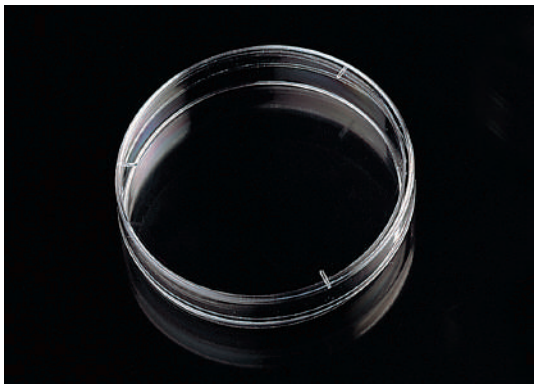
90 x 25 mm Petri Dish

Made in polystyrene.
Aseptic.
Supplied in groups of 24 units, packaged in heat sealed bags.
Suitable for automatic filling machines.

code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200215	Ø 90 x 25 mm	✓	24 x 13	8.63	0.076	24

90 x 15.8 mm Petri Dish

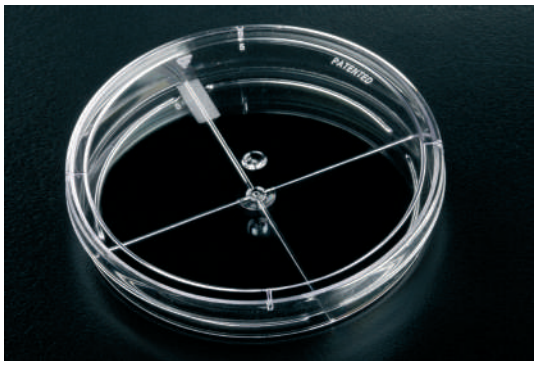
Made of high transparency polystyrene.
Aseptic.
Suitable for the general growth of all types of organisms or microorganisms aerobic and / or anaerobic.
Flat surface. Easily stackable thanks to the outer flange of the lid.



code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200200H	Ø 90 x 15,8 mm	✓	25 x 20	7,50	0,036	20

Petri Dish 90 x 15 mm with internal cross

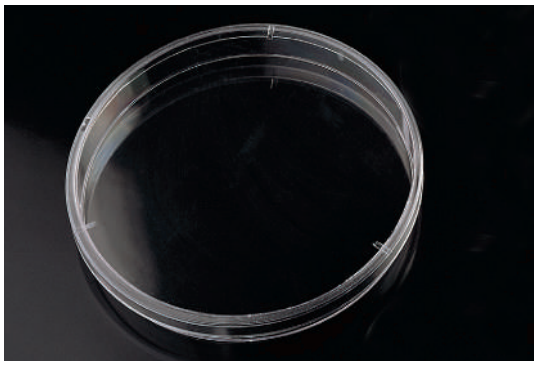
Made in polystyrene. **Aseptic.**
With four vents. Stackable.
With a mark on a side that helps orientation and a writing area on the bottom.
Supplied in groups of 25 units, packaged in heat sealed bags.
Suitable for automatic filling machines.
Internal cross guarantees the totally flat base.



code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200200.5	Ø 90 x 15 mm internal cross	✓	24 x 25	7.50	0.076	20

140 x 20 mm Petri Dish

Made in polystyrene. With three vents.
Suitable for automatic filling machines.
Code **200214** is **aseptic.**
Code **200219** is **sterile by radiation.**



code	description	sterile	aseptic	case quantity	case weight	case volume	cases per pallet
200214	Ø 140 x 20 mm	no	✓	11 x 15	7.40	0.074	30
200219	Ø 140 x 20 mm	STERILE R		11 x 15	7.25	0.072	30

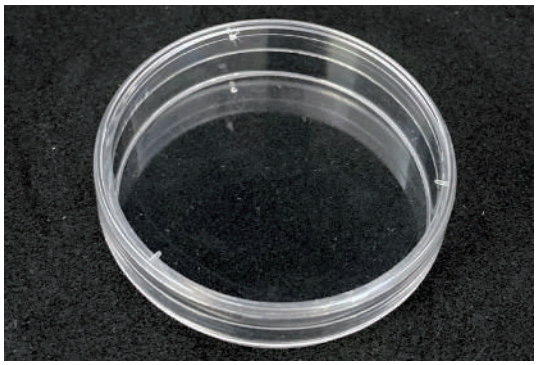
120 x 120 mm squared Petri Dish

Made in polystyrene.
Aseptic.
With four vents.
Supplied in groups of 10 units, packaged in heat sealed bags.
Suitable for automatic filling machines.

code	description	aseptic	case quantity	case weight	case volume	cases per pallet
200204	120 x 120 mm	✓	24 x 10	11.18	0.072	28

55 x 14 mm Petri Dish

Made in polystyrene. With three vents.
Supplied in groups of 15 units, packaged in heat sealed bags.
Suitable for automatic filling machines.
Code **200201** is **aseptic**.
Code **200201.B** is **sterile by radiation.**



code	description	sterile	aseptic	case quantity	case weight	case volume	cases per pallet
200201	Ø 55 x 14 mm	no	✓	80 x 15	8.40	0.068	30
200201.B	Ø 55 x 14 mm	STERILE R		80 x 15	8.46	0.068	30

Ø 100 mm Petri dish baskets

These stainless steel baskets are suitable for dishes of diameter up to 10 cm.
Two models available to hold 16 or 32 Petri dishes.

We can supply customer-designed models.

code	description	L x W x H mm (height without handle)	case quantity	case weight	case volume
H-600	1 section, holds up to 16 dishes	105x110x250	1	0.13	0.005
H-601	2 sections, holds up to 32 dishes	105x215x250	1	0.31	0.009

Heigh with handle: 360 mm.

Jar for anaerobes incubation

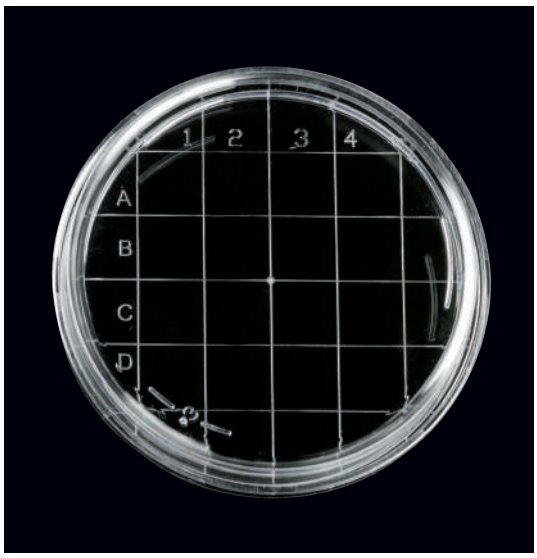
Incubation system for petri dishes in practical and simple anaeobiosis.
Jar of polycarbonate designed for use with any of anaerobiosis that generate special atmospheres.
Up to 14 90mm diameter petri plates.
Metal cap fixed by locking pressure system.
Stainless steel rack.
Viton® O-ring.
Compatible with all the usual reagents in microbiology.

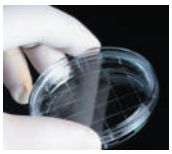
code	dimensions* (mm)	case quantity	case weight	case volume
H-625	119,4x285	1	1.17	0.0072

*Diameter x height.

Contact plates

Aseptic production.
Used in the pharmaceutical industry, hospital environments for determining bacterial contamination of surfaces such as the skin, operating tables, refrigerated gondolas, and work surfaces.
They are manufactured in transparent polystyrene.
The moulded grid at the bottom makes it possible to identify the detected contamination per cm^2 and it facilitates the counting of colonies.
Stable stacking: The shape of the lid makes stacking perfectly stable during transport and incubation, and saves space on work surfaces.
Dimensions of the dish: 65,7 mm x 14,7 mm height.





code	description	sterile	case quantity	case weight	case volume	cases per pallet
200208	Rodac contact plate	no	25 x 20	5.00	0.031	70
200218	Rodac contact plate	STERILE R	25 x 20	4.90	0.030	70

Moulded contact plate rack

Useful for safe transport and incubation of Rodac contact plates and helpful to streamline bench top sample processing. Each rack holds up to 60 contact plates with lids (minimum diameter: 65 mm, maximum diameter: 72 mm) configured in six columns of ten plates. Up to 4 racks can be stacked together, and all interlock to prevent accidental knock over.
Access slots under each stack of contact plates allows a stack of plates to be safely removed from the rack using a secure ring that places a finger under the bottom plate and thumb on top of the lid if the top plate.
A large centre divider provides space for labelling and incorporates a handle.
All parts are moulded with white polypropylene and are steam **autoclavable at 121 ºC.** Racks are supplied individually bagged, flat, and can be easily assembled (instructions included).

code	dimensions* (mm)	case quantity	case weight	case volume
H-610	266 x 165 x 178	1	0.39	0.002

*Lenght x width x height.

Moulded 90 or 100 mm Petri dish rack

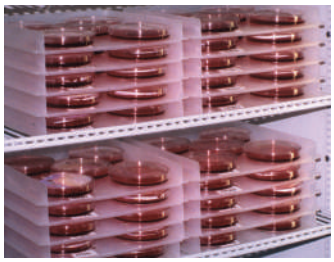
Useful for safe transport and incubation 90 or 100 mm Petri dishes and helpful to streamline bench top sample processing.
Each rack holds up to forty-two Petri dishes with lids, configured in six columns of seven plates. Up to 4 racks can be stacked together, and all interlock to prevent accidental knock over. Access slots under the bottom Petri dishes allows a stack of dishes to be safely removed from the rack using a secure ring that places a finger under the bottom dish and thumb on top of the lid if the top dish.
A large centre divider provides space for labelling and incorporates a handle.
All parts are moulded with white polypropylene and are steam **autoclavable at 121 ºC.**
Racks are supplied individually bagged, flat, and can be easily assembled (instructions included).

code	dimensions* (mm)	case quantity	case weight	case volume
H-611	330 x 210 x 178	1	0.40	0.005

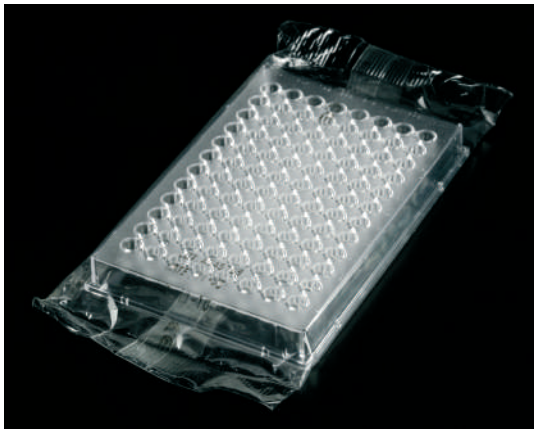
*Lenght x width x height.

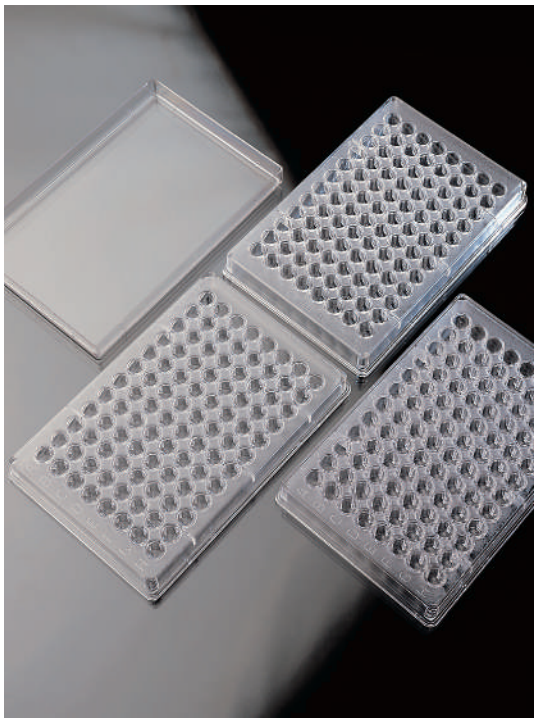
Stackable Petri dish incubation tray

This polypropylene tray increases overall capacity of incubator.
Designed to hold five 100 mm diameter or fifteen 60 mm diameter Petri dishes, it's provided with two large label areas for critical sample identification by marker or label.
With 16 vents.
Not autoclavable.



code	dimensions (mm)	case quantity	case weight	case volume
H-615	251 x 35 x 237	3	0.82	0.011





Microtitre plates, sterile

Made of high transparency **polystyrene**.
Standard 96-well plates.
Three models available depending on the bottom of the well.

- **Flat bottom plates** (**"LI" shaped plate**) are more suitable for optical reading (for example, by means of a spectrophotometer). They are also suitable for cell culture in suspension, as well as for those ELISA applications in which the treatment of the surface is not required to improve the adhesion between the plate and the antigen or antibody.
- The **tapered bottom plates** (**"V" shaped plate**) is very practical when you need to recover the entire sample or to separate components by centrifugation. They can be used for the complement fixation technique
- **Round bottom plates** (**"U" shaped plate**) are also used to recover the entire sample or to separate components by centrifugation.

Other applications:
- Dilution
- Preparation of serial samples
- Protein precipitation
- Hemagglutination

The cover, in transparent polystyrene, is supplied separately (codes **900015** or **900015.1**).
These plates can also be covered using the transparent sealing film or the plate sealing mat (see page 76).
Both sterile and non-sterile models are supplied in an individual bag.
Dimensions of the plate: 127.7 x 85.8 mm.

code	description	sterile	well plate estimate volume	case quantity	case weight	case volume
900010	microtitre plate "U" form	STERILE R	281 µl	50	2.15	0.013
900010.1	microtitre plate "U" form	no	281 µl	50	2.50	0.013
900011	microtitre plate "LI" form	STERILE R	404 µl	50	2.33	0.013
900011.1	microtitre plate "LI" form	no	404 µl	50	2.33	0.013
900012	microtitre plate "V" form	STERILE R	219 µl	50	2.33	0.013
900012.1	microtitre plate "V" form	no	219 µl	50	2.33	0.013
900015	lid for microtitre plate	STERILE R	–	50	1.28	0.016
900015.1	lid for microtitre plate	no	–	50	1.16	0.013

Digralsky spreader. Sterile

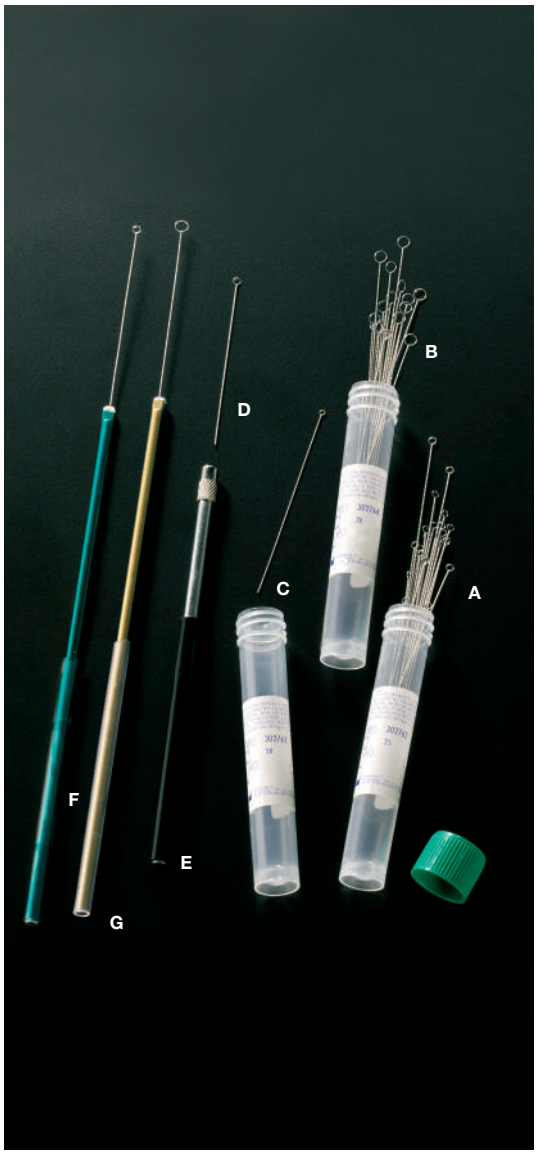
Designed for surface spreading. Made of white polystyrene. **Sterilized by ethylene oxide.** Total length: 149 mm, base length: 40 mm. Base length allows spreading liquid samples over any type of Petri dish and avoids contact with the dish walls. The curved Spreader extremity and rounded corners avoid damaging media surface while spreading. The tip bent and rounded edges minimize the possibility of breakage of the solid medium during extension. It allows their use in places where sterilization before use is not possible (for instance when samples are collected far from the lab). Available in peel-pack containing 1 or 5 units, marked with code, expiry date, lot and sterilization method.

NEW

code	presentation	case quantity	case weight	case volume
200500.1	5 units peel-pack	1,000	3.32	0.018
200510.1	1 unit peel-pack	1,000	3.6	0.079

Nichrome wire loops

Nichrome wire loops for microbiology.
Comparing them to the traditional loops made of platinum and rhodium, the nickel and chrome alloy results much more competitive in terms of durability and price. Moreover, it offers a totally smooth surface, and rapid cooling after heat sterilisation.
Non-calibrated loops (mod. A and B):
Non-calibrated nichrome loops, without holder, saving money and storage space. Supplied in groups of 25 units, in one tube, specifying code, description, and lot.
Calibrated loops (mod. C and D):
Calibrated nichrome loops. Supplied individually in a capped tube, labeled with the code, description and lot.
Calibrated and non-calibrated loops are easily joinable to the PVC and aluminium holder **(mod. E)** with an easy and fast screw movement.
Dimensions of the aluminium holder 150 mm.
Non-calibrated loops with holder (mod. F and G):
Non-calibrated loop made of nichrome alloy.
Light aluminium holder (**mod. G**, golden colour, **mod. F**, green) partially protected by a transparent, insulating, non-skid plastic. Dimensions, 275 mm.

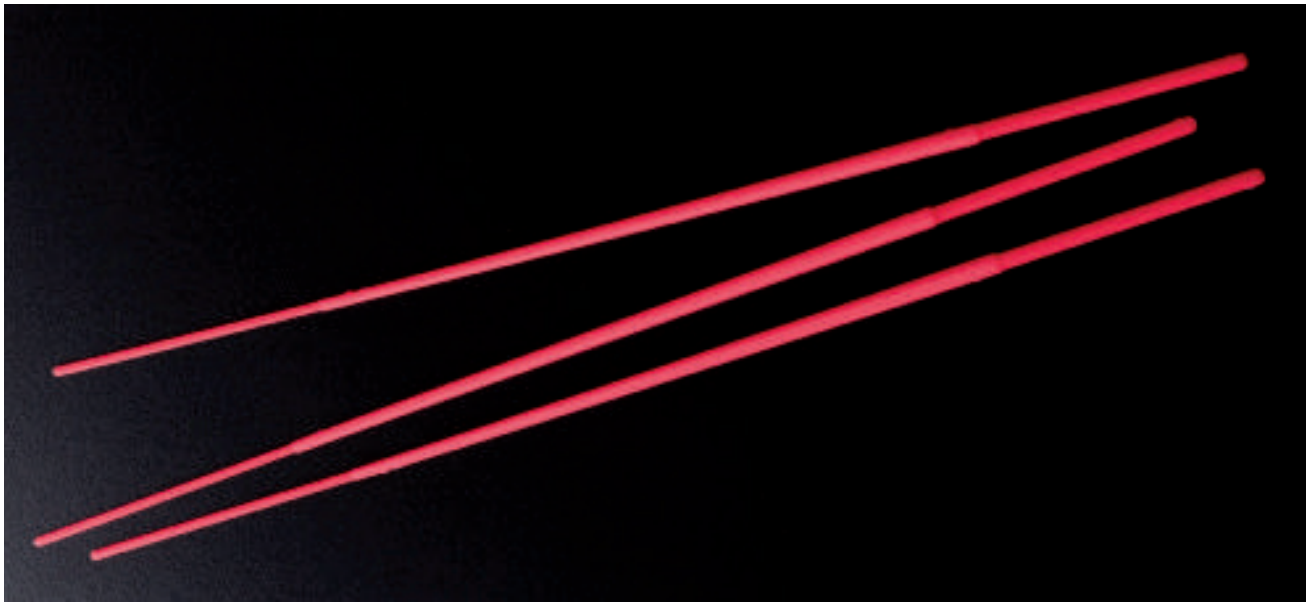


mod.	code	description	dimensions mm	case quantity	case weight	case volume
A	**302762**	Non-calibrated loop 2 mm Ø	75	25	0.025	0.000001
B	**302764**	Non-calibrated loop 4 mm Ø	75	25	0.30	0.0001
C	**302771**	Calibrated loop 1 µl	80	1	0.01	0.00004
D	**302772**	Calibrated loop 10 µl	80	1	0.008	0.00004
E	**302780**	Loop holder, PVC and aluminium	150	1	0.02	0.00001
F	**302792**	Non-calibrated loop (2 mm Ø) with holder	275	5	0.059	0.002
G	**302794**	Non-calibrated loop (4 mm Ø) with holder	275	5	0.057	0.002

Streaking needles

Sterile polypropylene planting needle. Flexible, red. **Product sterilized by radiation**.

code	description	case quantity	case weight	case volume
668811	10 units peel-pack	6 x 1,000	7.78	0.030



Sterile calibrated loops

Inoculation loops used for collection and inoculation by streaking or puncturing method. Flexible loops made of HIPS material. Hexagonal shaft with stripes. They are ideal for inoculation in gel surface by streaking.

Sterilised by radiation.
Two sizes available: 1 µl and 10 µl.
Not recommended for colony counting. Sterile inoculating loops.
Batch and expiry date printed on the bag.

The packaging offers a double closure with a zipper system that closes the coat once opened.

Innoculation loops 1 µl:
Internal diameter : 0.75 ± 0.08 mm Length : 196 mm

Innoculation loops 10 µl:
Internal diameter : 4.1 ± 0.08 mm Length : 200 mm

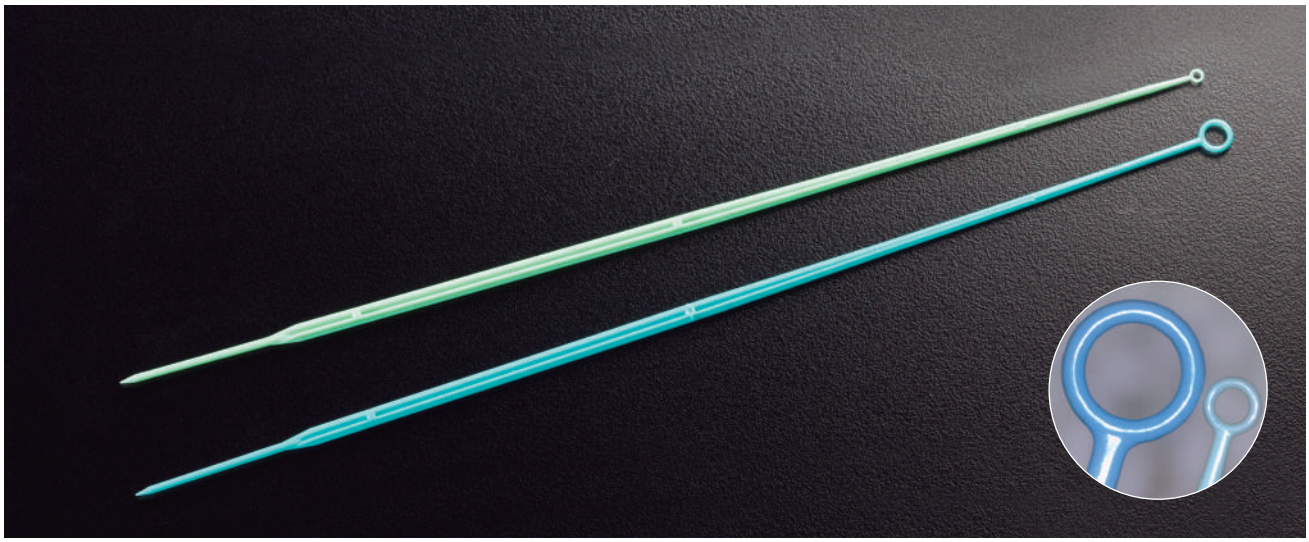
code	µl	presentation	colour	case quantity	case weight	case volume
302713	1	10 ud. zip lock	green	10 x 1,000	14.21	0.072
302733	1	20 ud. zip lock	green	10 x 1,000	12.75	0.072
302714	10	10 ud. zip lock	blue	10 x 1,000	14.3	0.072
302734	10	20 ud. zip lock	blue	10 x 1,000	12.8	0.070

Sterile calibrated loops

Loops made of polystyrene, high robustness and adequate flexibility for comfortable and efficient use. **Sterilised by radiation.**
Double use loops: at one of the ends there is the loop for streaking in Petri dishes, using both qualitative and quantitative techniques. At the other end there is a fine tip specially designed for counting colonies. Available in 2 volumes: 1 and 10 µl. The green and blue colors are used to easily differentiate the 2 volumes in the laboratory. They offer great ergonomics and gripping thanks to its hexagonal design of its section which provide ease of orientation while using it.There are 3 presentations: individual pack, 10 and 20 units. All of them are supplied in a plastic packaging with easy opening.
The loops are calibrated. **Deltalab** certifies the control of the dimensional accuracy of the diameter of the loop by means of specific gauge **(Calibration certificate available under request).**

Internal diameter 1 µl handle: 1.42 ± 0.05 mm
Internal diameter 10 µl handle: 3.98 ± 0.05 mm

code	µl	presentation	colour	case quantity	case weight	case volume
302743	1	individual flow pack	green	2 x 600	1.90	0.029
302744	1	peelable flow pack 10 units	green	2 x 1,400	2.95	0.029
302745	1	peelable flow pack 20 units	green	2 x 2.500	4.31	0.029
302753	10	individual flow pack	blue	2 x 600	1.90	0.029
302754	10	peelable flow pack 10 units	blue	2 x 1,400	3.00	0.029
302755	10	peelable flow pack 20 units	blue	2 x 2,500	4.34	0.029



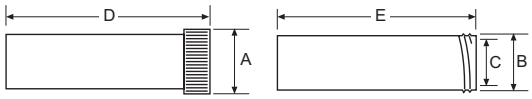
EUROTUBO® 12 ml screw cap tubes, round bottom

Made of **autoclavable** (**121 ºC**) transparent polypropylene or polystyrene. Green cap made of high density polyethylene.
Dimensions: 15 x 102 mm. The external skirt allows the tubes to remain **free-standing.** Supplied screwed. Recommended volume: 12 ml. The sterile model (ethylene oxide) is supplied individually in flow-pack bag, with indication of batch, expiration date, etc.
According to the guidelines for sterile products. Resistance to centrifugation: **PS: 7,500 xg. PP: 15,000 xg.**
Attention: For autoclaving, the cap should be loose on the thread and not tightly fitted.

mod.	code	sterile	description	autoclavable	maximum volume ml	recommended volume ml	case quantity	case weight	case volume	cases pallet
1	**301403**	no	polystyrene		14.4	12	6 x 250	12.90	0.082	20
2	**301402**	STERILE EO	polystyrene individually wrapped		14.4	12	6 x 250	13.40	0.096	16
3	**401402**	STERILE EO	polypropylene individually wrapped	✓	14.2	12	6 x 250	12.03	0.096	16
4	**401403**	no	high transparency polypropylene	✓	14.2	12	6 x 250	11.11	0.082	20

Dimensions (±0,09) :

code	external cap Ø mm A	external tube Ø mm B	internal tube Ø mm C	length with cap mm D	length without cap mm E
301402, 301403	20.9	16.3	14.4	103.9	102.5
401402, 401403	20.9	16.2	14.3	102.9	101.5



CE IVD 121°C
PP mod. 3, 4

Sterile culture tubes in polystyrene

Tubes supplied with either a two position ribbed polyethylene cap, which can be left loose for aerobic work or sealed for anaerobic cultures.
They are biologically inert, exempt from mold release agents, and withstand up to **1,400 xg** and **70 ºC.**
Packaged in self-standing resealable zip-lock bags of 125 units.
Graduation up to 4 ml and up to 14 ml. 1 ml graduation.

Loose position for aerobic work

PosSealed position for anaerobic cultures

code	dimensions mm	volume	case quantity	case weight	case volume
300807	12 x 75	5 ml	8 x 125	4.24	0.033
300808	17 x 100	14 ml	8 x 125	7.14	0.060

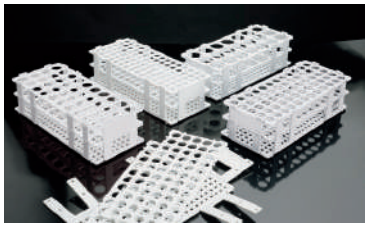
15 ml and 50 ml centrifugal tubes

Made of polypropylene, suitable for both clinical and research applications.
DNAsa, RNAsa and pyrogen free. They are also free from natural rubber and heavy metals.
High transparency of the material for a clear visualization during experiments specially for molecular biology and animal tissue culture.
Tube and cap designed with the system of flat threads for a complete leakproof.
Highly smooth hydrophobic surface for minimum disturbance during centrifugation.
Silk-screen blue graduation in the tube and large white frosted portion for easy writing.
Autoclavable at 121 ºC.
Centrifugation resistance: **14.000 xg**, except code **429931: 7.500 xg** and codes **429950, 429951: 3.500 xg**
It is recommended to use adapters to centrifuge and avoid malformations.
Available models: 15 ml non-skirted and 50 ml skirted and non-skirted.

code	description	presentation	sterile	case weight	case volume	cases pallet
15 ml tubes						
429940	non-skirted tube	500 tubes in bulk	no	500	4.50	0.034
429945	non-skirted tube	20 bag to 25 tubes.	no	500	4.50	0.0281
429942	non-skirted tube	20 bag to 25 tubes.	STERILE R	500	4.35	0.04
50 ml tubes						
429930	non-skirted tube	20 bag to 25 tubes.	no	500	7.70	0.09
429931	non-skirted tube	20 bag to 25 tubes.	STERILE R	500	7.44	0.108
429950	skirted tube	20 bag to 25 tubes.	no	500	8.80	0.09
429951	skirted tube	20 bag to 25 tubes.	STERILE R	500	8.80	0.108

EUROTUBO® 15 ml conical tubes

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc.
Continuous thread, external moulded graduations in 0,5 ml increments.
Wrinkled area (55 x 10 mm).
Blue cap in polyethylene with hermetical closure thanks to its internal elastic obturation.
Code **429910** is autoclavable (**121ºC**) with the cap not being closed, just placed on the thread.
Autoclave not recommended for the codes **429920** and **429946**, as they have been **sterilised by radiation.**
Code **429920** is supplied sterile (100 units bags).
The bag specifies IVD, lot number, expiration date, etc.
Code **429946** is supplied sterile in individual bags. Resistance to centrifugation: **7,000 xg** (non sterile model) and **5,000 xg** (sterile models)**.**
It is recommended to use adapters to centrifuge and avoid malformations.
Length (with cap): 120 mm. External mouth diameter: 17 mm. External cap diameter: 20,9 mm.



POLYPROPYLENE RACKS
Pag. 224

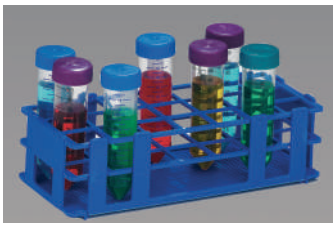
code	sterile	autoclavable	case quantity	case weight	case volume	cases pallet
429910	no	✓	500	3.94	0.030	54
429920	STERILE R		5 x 100	3.90	0.029	54
429946	STERILE R individually bagged		500	3.96	0.040	40

Please find racks for these tubes in chapte **Sample Storage**

EUROTUBO® 50 ml conical tubes

Tubes made of transparent polypropylene, conical bottom, suitable for centrifugation tests in immunology, microbiology, etc.
Perfect to analyse Koch bacillus. Continuous thread, external moulded graduations in 5 ml increments.
Blue cap in high density polyethylene with hermetical closure thanks to its internal elastic obturation.
Skirted and non skirted versions, **sterilised by radiation** and non sterilised versions. Sterile codes are either supplied in individual bags (codes **429926**, **429927**), in bags of 100 units (codes **429926.10, 429927.10**), or in bags of 25 units (codes **429926.25**, **429927.25**) and resist up to **7,000 xg.**
Autoclave not recommended as they have been ionised.
Non sterile codes withstand up to **12,000 xg** and are autoclavable (**121 ºC**) with the cap loose on the thread and not tightly fitted.
Every version is supplied capped, excepting code **429900SP,** which is supplied uncapped, with the cap in a separated bag.
You need to use the proper adapters to the tube of the code **429926** during the centrifucación to avoid malformations.

POLYPROPYLENE RACKS:
- W-018
- 19568
- 19570



METAL RACKS:
- R-292
- R-293
- R-281
- R-282
- R-283

code	sterile	description	external cap Ø mm	internal tube Ø mm	external tube Ø mm	length with cap mm	case quantity	case weight	case volume	cases pallet
429900	no	non skirted	34.4	27.2	29.5	117.5	500	7.80	0.072	20
429900SP	no	non skirted, unscrewed cap	34.4	27.2	29.5	117.5	500	7.90	0.082	20
429901	no	skirted	34.4	27.2	29.5	117.5	500	8.50	0.082	20
429926	STERILE R	non skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.00	0.080	20
429926.25	STERILE R	non skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.30	0.082	20
429926.10	STERILE R	non skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	7.90	0.082	20
429927	STERILE R	skirted, individually wrapped	34.4	27.2	29.5	117.5	500	8.80	0.082	20
429927.25	STERILE R	skirted, bag 25 units	34.4	27.2	29.5	117.5	20x25	8.80	0.082	20
429927.10	STERILE R	skirted, bag 100 units	34.4	27.2	29.5	117.5	5x100	8.50	0.082	20

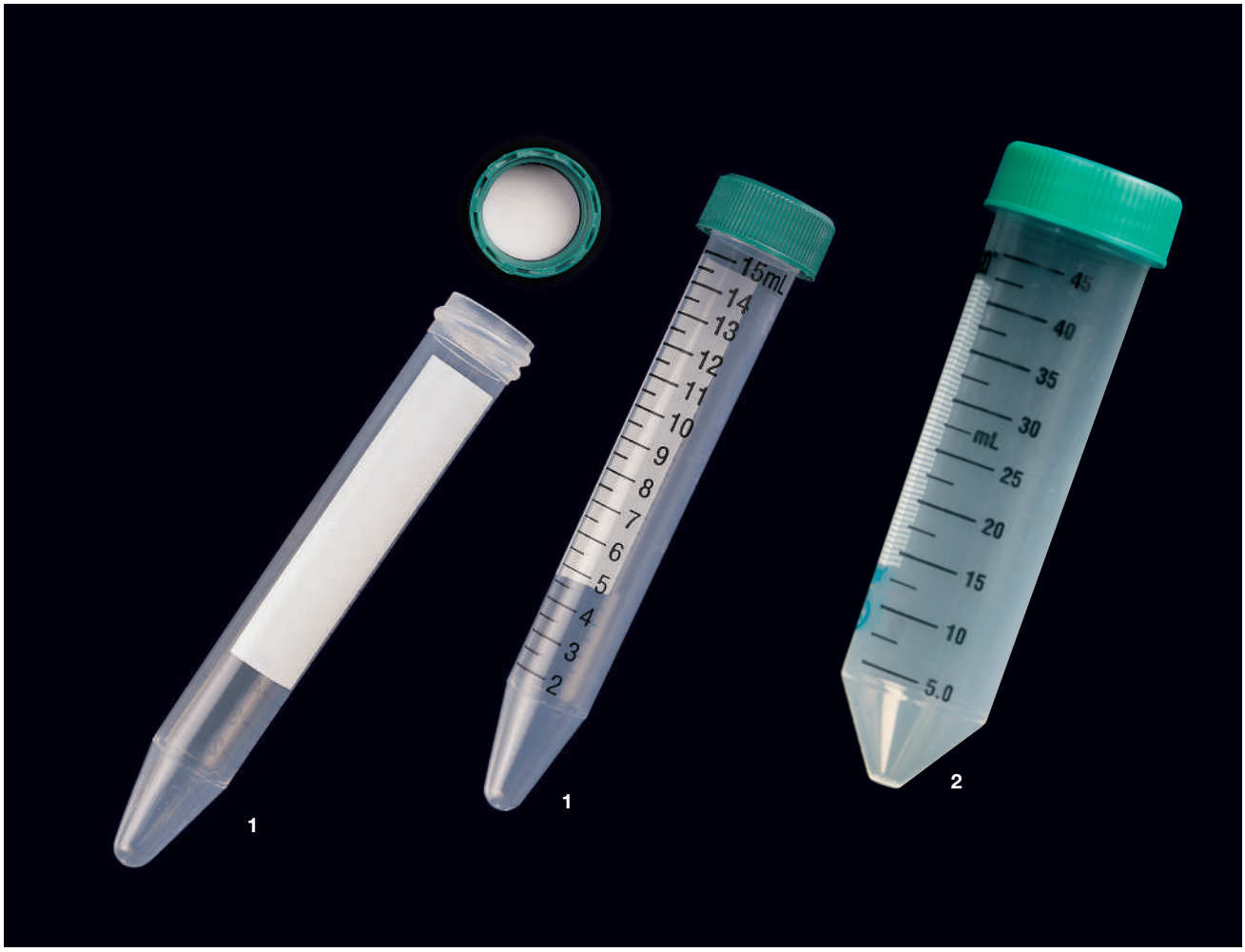
Please find racks for these tubes in chapter **Sample Storage**

15 ml and 50 ml conical high resistance tubes. Sterile

Tubes made of transparent, copolymer polypropylene.
Green caps made of polyethylene with an internal liner which ensures leakproofness.
Tubes feature a solvent resistant white panel and black graduations for use both for clear or dark samples.
DNAse, RNAse, endotoxins and metal free.
They are **sterile by radiation** and withstand temperatures down to **–90 ºC** (15 ml) and **–80 ºC** (50 ml)..
Resistance to centrifugation: **17,000 xg** (15 ml) and **20.000 xg** (50 ml).
Autoclavable tube (the liner of the cap is not autoclavable)
Supplied in bags of 50 units.

Bags are printed with instructions for use and feature a double closure: a first tamper evident seal that helps guaranteeing sterility, and a secondary zip-lock, resealable closure.

	code	presentation	capacity ml	dimensions mm	case quantity	case weight	case volume
1	**409920**	bag 50 units	15	17 x 118	10 x 50	3.90	0.035
2	**409922**	bag 50 units	50	29.6 x 114.6	10 x 50	8.07	0.076

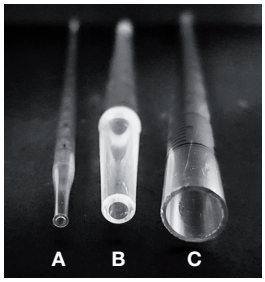


Sterile serological pipettes

Made of glass polystyrene. Single use only.
Serological pipettes have an accuracy of +/- 2% at full scale.
Sterilized by radiation.
Manufactured in one, two or three pieces depending on the volume.
They guarantee maximum precision without liquid retention at the welding level and offer a total dispensing. Pyrogenic, non-cytotoxic and non-hemolytic.
Volumes from 1 ml to 50 ml, identified with a polyolefin (does not contain synthetic fibers) white cotton and screen printed in color according to volume.
The peel-pack of the models presented in this way is fiber-free and easy to open. Black graduations, bright and unalterable. Negative scale and double inverted scale (ascending and descending graduations).

DNAse and RNAse free.
Manufactured in a room with controlled environment, class 100,000.
BSE / TSE free.
This product does not contain latex.

Three models of tips available:
A = TAPE END,
B = WIDE TIP,
C = OPEN TIP
(recommended for viscose samples).

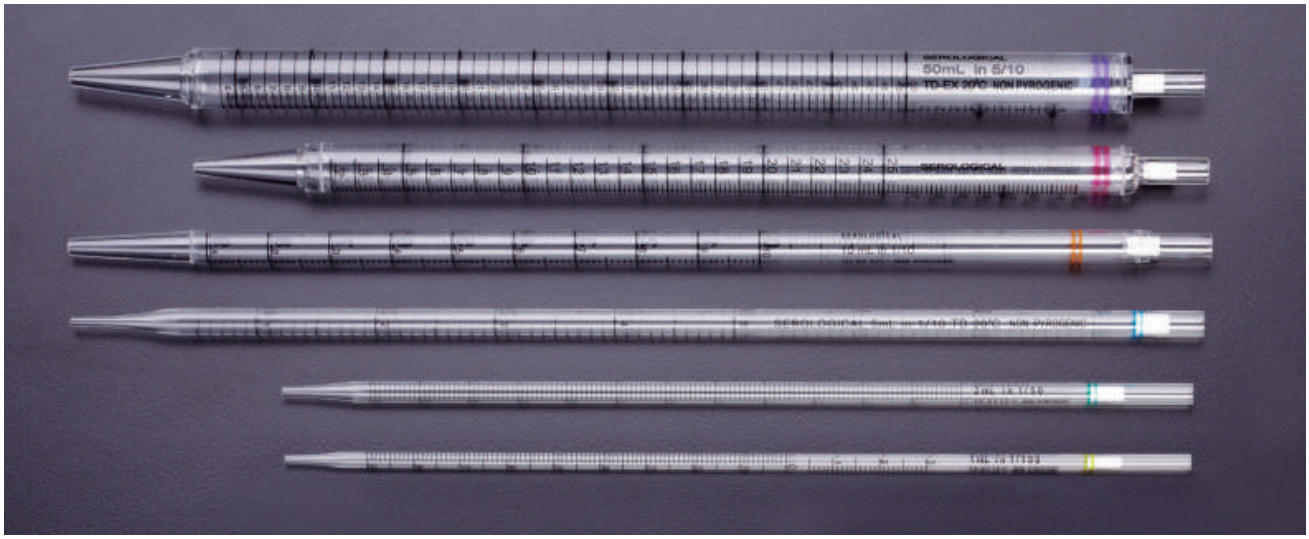


code	capacity ml	presentation	cotton colour	tip	graduation ml	negative graduation ml	total capacity ml	case quantity	case weight	case volume
900030.C	1	1 peel-pack	●	A	0/0.9	until –0.3	1.3	500	2.59	0.019
900031.C	1	bag of 25	●	A	0/0.9	until –0.3	1.3	40 x 25	4.02	0.019
900130.C	1	1 peel-pack	●	C	0/0.9	until –0.3	1.3	500	2.59	0.019
900032.C	2	1 peel-pack	●	A	0/1.8	until –0.6	2.6	500	3.74	0.019
900033.C	2	bag of 25	●	A	0/1.8	until –0.6	2.6	40 x 25	6.70	0.019
900034.C	5	1 peel-pack	●	A	0/4	until –3	8	200	2.42	0.014
900038.C	5	bag of 25	●	A	0/4	until –3	8	20 x 25	6.38	0.019
900144.C	5	1 peel-pack	●	B	0/4	until –3	8	200	2.42	0.014
900036.C	10	1 peel-pack	●	A	0/9	until –3	13	200	2.73	0.014
900037.C	10	bag of 25	●	A	0/9	until –3	13	16 x 25	5.5	0.019
900136.C	10	1 peel-pack	●	C	0/9	until –3	13	200	2.32	0.013
900146.C	10	1 peel-pack	●	B	0/9	until –3	13	200	3.82	0.014
900041.C	25	1 peel-pack	●	A	0/23	until –8	33	150	3.07	0.019
900043.C	50	1 peel-pack	●	A	0/46	until –10	60	100	2.54	0.019

Find trays, rotary stands and other products for pipettes in chapter **Safety and General Labware**

See our plastic Pasteur pipettes in chapter **Liquid Handling**

Please find racks for these tubes in chapter **Sample Storage**



EUROTUBO® Pipetting bulb

This one-handed design is the simplest safety pipette filler to use available. Manufactured in natural orange rubber. Approx. drawn capacity: 25 ml.
Single hand use, only two operating points. Evacuate via the automatic valve.
Standard model, accommodates all pipettes. Ability to clean inside of bulb by removing patented valve and rinsing out.

1. Evacuate the air by pressing the bulb, as the drawing indicates

2. Intake by pressing on point B ⓑ

3. Drain the liquid by pressing on point A ⓐ

4. Blow out the pipette by pressing as the drawing indicates (point C).

code	description	bag quantity	bag weight	bag volume
19200	pippeting bulb	1	0.05	0.0004

Pipetting bulb

Made of rubber.
Used to avoid mouth pipetting and contamination risk.
Can be opened, cleaned and **autoclaved.**
Ideal for Wintrobe and Westergren pipettes.

121°C

code	description	bag quantity	bag weight	bag volume
19201	red pippeting bulb	1	0.04	0.0002

Pipette pumps

Several models for various pipette volumes.
Designed for fast and efficient pipetting with simple, one handed operation.
Pipettes fit smoothly into collar.
Rotate the knurled thumb wheel on the side for precision filling or dispensing, and press the fast release lever for quick emptying.
Easy to use and easily disassembled for cleaning.
Sizes are colour coded.
Pipette pumps resist acids and alkalies.

121°C

Pipette pump support rack
See chapter **Hygiene and safety.**

code	description	colour	bag quantity	bag weight	bag volume
W-100	up to 2 ml	blue	1	0.06	0.0002
W-110	up to 10 ml	green	1	0.06	0.0002
W-120	up to 25 ml	red	1	0.06	0.0002

Sterile Whirl-Pak® blender bags with and without filter

Bags made of a low density polyethylene blend, resulting in an **extra-resistant and transparent bag.**
Leakproof closure with several metallic rounded sticks (see how to use it on figures on page 110).
Codes **200373**, **200374** and **200376** feature a **filter layer** of finely **perforated polyethylene**, to separate the liquid and solids. This allows the **easy pipetting of the sample**. There are 6.45 holes per cm^2, each one measuring 330 microns diameter. Bags with a **one-piece seam**, avoiding the possible risks of the loss of the corners bags. They feature a write-on strip (excluding codes **200342** y **200343**).
Ethylene Oxyde sterilised. Made with materials suitables for alimentary use.

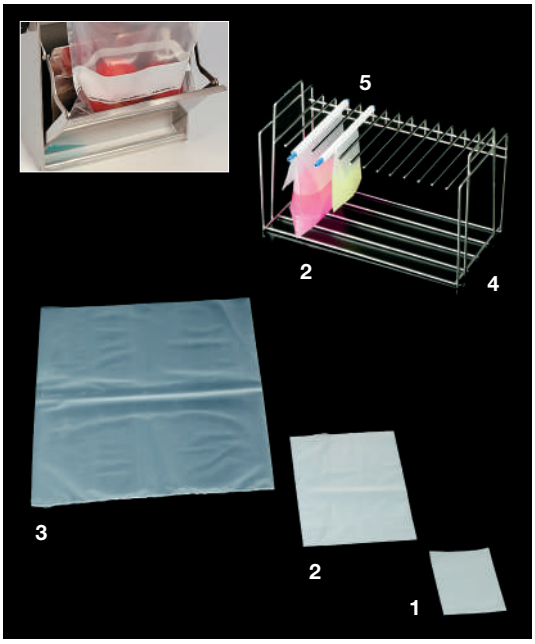
mod.	code	description	alimentary use	capacity ml	dimensions cm	tickness microns	case quantity	case weight	case volume
1	**200342**	standard bag	✓	390	13 x 19	76	500	2.50	0.0170
1	**200343**	standard bag	✓	720	15 x 23	102	500	3.88	0.0168
2	**200351**	bag with write-on strip	✓	1,650	19 x 30	102	500	5.66	0.0182
3	**200373**	bag with filter and write-on strip	✓	720	15 x 23	102	250	1.98	0.0166
3	**200376**	bag with filter and write-on strip	✓	1,650	19 x 30	102	250	3.88	0.0180
3	**200374**	bag with filter and write-on strip	✓	2,041	19 x 38	102	250	4.28	0.0170

Sterile bags for STOMACHER® blenders

Made of polyethylene. Thickness: gauge 300. Ideal for mixing and blending bacterial samples or when collecting toxic substances from food, fabrics, etc.
Irradiation sterilised. Supplied in bags of 25 units.
Code **15006** is a stainless steel rack for 14 bags. Side handles incorporated.
To close bags. May be used with the rack **15006**.
Compounded by a blue tubular piece (230 mm) and a white clip (197 mm) which tightens the bag around the blue tube.
Code **983047** is a clip to close and adjust bags onto the rack.
Also available non sterile versions. Please ask for the minimum order quantity and delivery time. Add an "S" at the end of the code.

mod.	code	description	capacity ml	case quantity	case weight	case volume
1	**15001**	bag 100 x 155 mm	80	100 x 25	5.00	0.014
2	**15003**	bag 180 x 300 mm	400	20 x 25	4.20	0.014
3	**15004**	bag 380 x 580 mm	3,500	200	6.12	0.013
4	**15006**	rack 390 x 200 x 240 mm	-	1	1.77	0.039
5	**983047**	clips*	-	200	4.30	0.04

* Tubular piece: 230mm I Clip: 197 mm I Diameter: 10mm

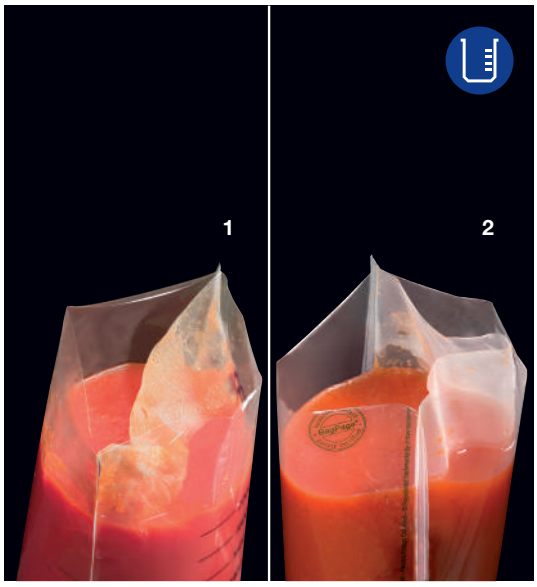


Sterile homogeniser lateral filter bag

Filter bag suitable for PCR and small volumes, it can be used with very short pipette. The unique and patented Pull-Up system allows to pinch the bag and pull up the filtered liquid for easy pipetting.
Nonwoven side filter having a porosity of 50 microns, rigid and transparent. The filtration is performed during homogenization, it is not necessary to wait for the sedimentation of particles.
Compatible with any lab blender.
Steriles by radiation.

NEW

code	packaging	case quantity	case weight	case volume
983045	homogeniser lateral filter bag 400 ml	10x25	2.72	0.010



Sterile homogeniser full size filter bag

Bag made of transparent polyethylene (PE) divided in two parts by a filter:
15005: the filter is integrated into the bag.
122000: joined to the bag by a point in the upper part of the sheet.
The sample is inserted into one of the compartments and, after being homogenised and filtered, the solid particles remain in the initial compartment, while the liquid ones pass to the other compartment and can be extracted with a pipette without any risk of obstruction.

mod.	code	packaging	sterile	case quantity	case weight	case volume
1	**15005**	bag 180x310 mm	STERILE R	50x10	6.50	0.047
2	**122000**	bag 190x300 mm	STERILE R	20x25	5.92	0.020

mod.	code	filter	recommended working volume (ml)	maximum capacity (ml)	bag graduation
1	**15005**	286 holes/cm²	50-400	1.600	YES (each 100 ml)
2	**122000**	280 microns	1.600	1.600	NO

Tissue grinders-homogenisers

Borosilicate glass vessels and serrated plunger. Tips: head made of TEFLON. shaft made of stainless steel. Fully **autoclavable.** The distance between the glass and the plunger is ± 200 µm.

Glass vessels:

code	volume ml	body Ø mm	height mm	case quantity	case weight	case volume
196102	2	8	120	1	0.01	0.001
196105	5	12	132	1	0.01	0.001
196110	10	16	150	1	0.02	0.001
196115	15	19	155	1	0.03	0.001

Plunger-serrated tips:

code	for tube of mm	height mm	case quantity	case weight	case volume
196302	2	230	1	0.06	0.001
196305	5	235	1	0.06	0.001
196310	10	270	1	0.06	0.001
196315	15	270	1	0.02	0.001

Sterile bottles for water sampling

Rectangular body and cap made of polyethylene. The minor sides are gripped for a better handling.
The larger sides are flat for labelling. Tamper evident red cap with an internal joint. Hermetical closure.
Sterilised by radiation.
Each bottle is labelled specifying description, code, lot, and expiry date.
Dimensions:
500 ml bottle: 83 x 65 x 135 mm - 1,000 ml bottle: 83 x 65 x 235 mm.
Mouth diameter intern: 28 mm.
Unitary weight (empty bottle):
500 ml bottle: 40 g - 1,000 ml bottle: 61 g.
Available with or without thiosulfate sodium
Bottles with liquid sodium thiosulfate (24 mg/l): Ideal to analyse water meant for human consumption, swimming pools, and any other water where chlorine may modify the composition of the sample while being transported.
Sterile bottles: Ideal to sample unchlorinated water for microbiological analysis, as well as for other sampling requiring sterile bottles.

code	description	sterile	capacity ml	case quantity	case weight	case volume	cases per pallet
282320	bottle **with thiosulfate**	STERILE R	500	24	1.35	0.025	48
282321	bottle **with thiosulfate**	STERILE R	1,000	20	1.67	0.033	42
282323	bottle **with thiosulfate**	STERILE R	500	111	6.00	0.110	16
282323.BU	bottle **with thiosulfate**, individually wrapped	STERILE R	500	111	6.04	0.110	16
282324	bottle **with thiosulfate**	STERILE R	1,000	68	5.15	0.100	16
282324.BU	bottle **with thiosulfate**, individually wrapped	STERILE R	1,000	68	5.41	0.110	16
282330	bottle **sterile**	STERILE R	500	24	1.36	0.025	48
282331	bottle **sterile**	STERILE R	1,000	20	1.37	0.033	42
282333	bottle **sterile**	STERILE R	500	111	5.92	0.110	16
282334	bottle **sterile**	STERILE R	1,000	68	5.15	0.110	16

We can supply any other concentration according to each country's standards.
For other volume bottles, please contact our sales departement.
Optionally presented in individual bags if requested.

Please ask for customized labels

Whirl-Pak® surface sampling bags

New Whirl-Pak bags with spoon, dry or hydrated sponge with sample collection medium.
The buffered medium of the 200381 model contains monopotassium phosphate, sodium thiosulfate and aryl sulphonate complex.

Code 200381

Cellulose sponge, hydrated with 10 ml of neutralizing buffer.
The buffer will neutralize surface sanitizers, including quaternary ammonium compounds, phenolics, iodine preps, chlorine preps, mercurials, formaldehyde, and glutaraldehyde.
Diluent has a 24-month shelf life from the date of manufacture. Neutralizing buffer contains monopotassium phosphate, sodium thiosulfate, and aryl sulfonate complex.

Code 200382

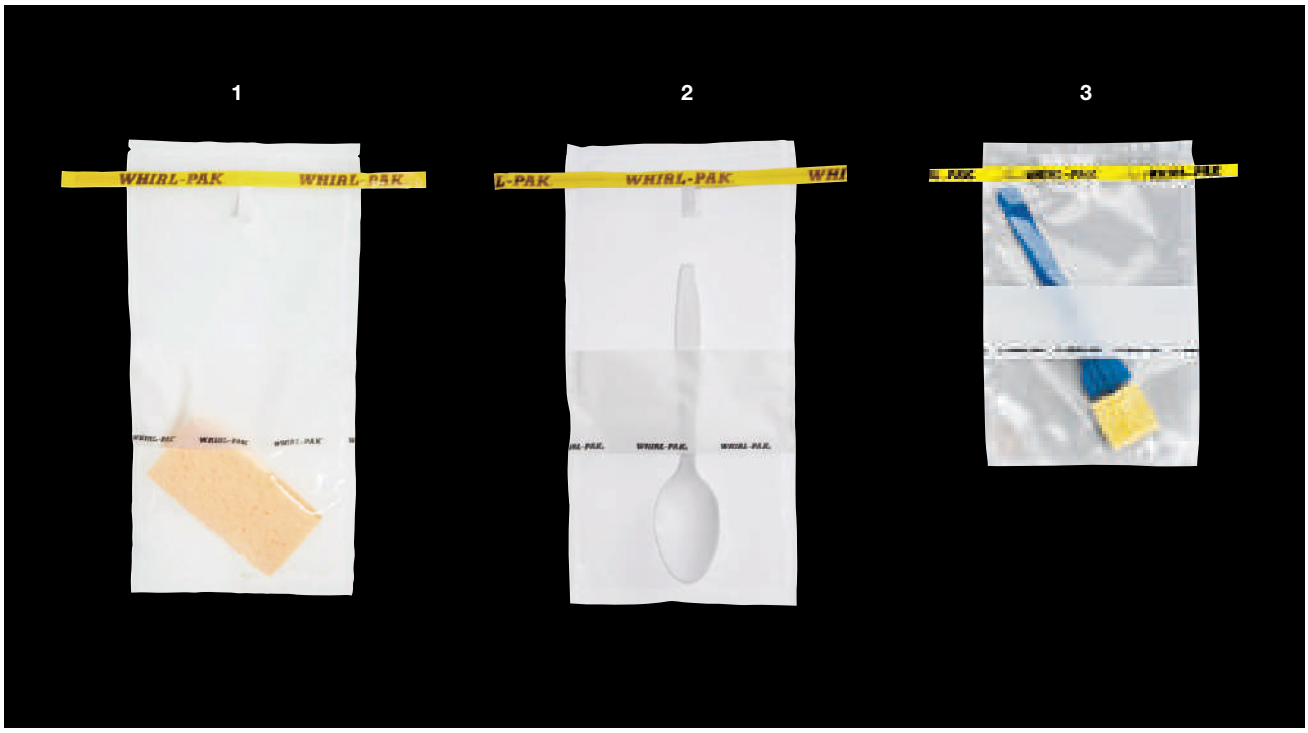
532 ml write-on bag contains a sterile, disposable polystyrene plastic spoon of approximately 1 teaspoon capacity.

Code 200383

The 8" (20.3 cm) long bendable polypropylene handle allows maximum contact of the sponge with the sampling surface and also helps with the collection of hard-to-reach surfaces, around corners, and irregularly shaped areas.
The innovative twist-off head holds the cellulose sponge securely and is quick and easy to remove from the handle once sample collection is completed.
Sterilized.

mod.	code	presentation	sterile	capacity ml	dimensions cm	tickness microns	case quantity	case weight	case volume
1	**200381**	Bag with hydrated sponge with medium	STERILE EO	532	11.5 x 23	63.5	100	2.5	0.019
2	**200382**	Bag with spoon	STERILE EO	532	11.5 x 23	63.5	100	1.02	0.007
3	**200383**	Bag with sponge	STERILE EO	710	15 x 23	76.2	50	1.14	0.014

NEW



Whirl-Pak® bags with sodium thiosulfate

Bags used for collecting samples of drinking water and treated waters of swimming pools, sewage, etc.
These bags tend to stand on their own, they are pre-sterilized, they are unbreakable, compact, with matte band for identification and closure
It is totally waterproof.
They contain 10mg sodium thiosulfate tablets inside for each 100ml of water.

code	description	capacity ml	dimen. cm	tickness microns	case quantity	case weight	case volume
292601	Stand-up bag with thiosulfate	100	7.5 x 18.5	63.5	100	0.45	0.002
292602	Stand-up bag with thiosulfate	300	11.5 x 23	76.2	100	0.68	0.003
292605	Stand-up bag with thiosulfate	500	15 x 23	76.2	100	1.14	0.010
292606	Stand-up bag with thiosulfate	1,000	15 x 38	101.6	100	1.7	0.015

Thyosulfate

NEW

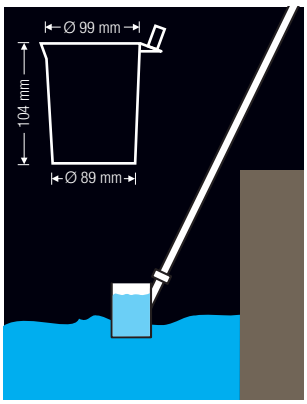
Long-handled dippers

Polypropylene cup and polyethylene handle. For convenient sampling from tanks, vats, streams, ponds, lakes, etc. These dippers are light, easy to use and portable. The polypropylene cups have threaded fittings that screw onto the handle. Two pouring spouts on the 500 ml dipper make it useful for left or right handed people to pour from either side.
The end of the handle has a hook for hanging.
Autoclavable container (up to **121°C**).

code	description	quantity	weight	volume
19575	91 cm handle, 500 ml container	1	0.30	0.009
19576	183 cm handle, 500 ml container	1	0.76	0.020
19577	container 500 ml (fits either handle)	1	0.30	0.005

Please ask the commercial department for other lengths.

121°C
container

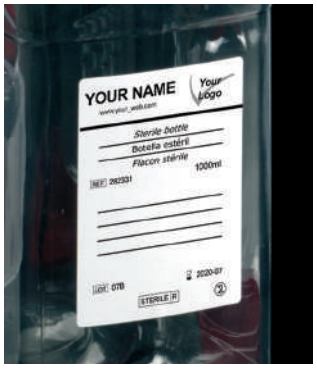


Sterile jars for water sampling

Transparent squared jars made of PET.
Wide mouth and grips at two sides, easing the sample collection.
Red cap made of polypropylene with internal liner made of polexan with a label that performs as tamper evident.
Sterilised by radiation. Each bottle is labelled specifying description, code, lot, and expiry date.
Internal mouth diameter mm: 55
Jar weight (gr):
500 ml jar: 44 g - 1,000 ml jar: 65 g
Available with or without thiosulfate sodium.
With liquid sodium thiosulfate (24 mg/l): Ideal to analyze water meant for human consumption, swimming pools, and any other water where chlorine may modify the composition of the sample while being transported.
Empty, without thiosulfate: Ideal to sample unchlorinated water for microbiological analysis, as well as for other sampling requiring sterile bottles.

mod.	code	description	sterile	capacity ml	case quantity	case weight	case volume	cases per pallet
1	**282340**	jar **with thiosulfate**	STERILE R	500	44	2.68	0.036	40
2	**282341**	jar **with thiosulfate**	STERILE R	1,000	48	4.30	0.076	20
3	**282350**	jar **without thiosulfate**	STERILE R	500	44	2.68	0.036	40
4	**282351**	jar **without thiosulfate**	STERILE R	1,000	48	4.30	0.076	20

We can supply any other concentration according to each country's standards.
We can also dose thiosulfate in other jars from our catalogue.
Optionally presented in individual bags if requested.
*Minimum ordering quantity: 1 pallet.



See industrial funnels on chapter
Laboratory and industrial packaging

Please ask for customized labels

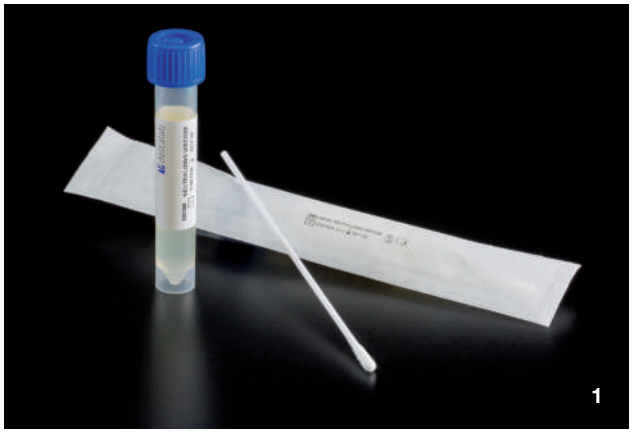
Thiosulfate

Suface Kit

The new surface kits are supplied with a swab and a tube containing a buffered broth with neutralising agents.
Kits are intended for surface sampling for subsequent microbiological analysis. The kit is a single use product and is **sterilised by radiation**.
The swab is composed of a polystyrene support with a breakpoint (only reference **200398**) and a viscose tip.
The tube incorporates a pressure or screwed cap.
The kit is intended to be used by skilled personnel, properly trained un surface sampling.
The kit is presented individually wrapped in a peel-pack format.
The kit is complemented with the sampling template (**200396P**).
It has a hole of 4x5 cm to perform the sampling, is **sterile** and its supplied in a flow-pack. **Shelf life: 18 months**

Recommended for food industry, cosmetics, environment, veterinary, pharmacy, among others.

mod.	code	description	sterile	case quantity	case weight	case volume
1	**200398**	10 ml neutralising broth in skirted tube + viscose swab	STERILE R	2 x100	4.50	0.030
2	**200399**	5 ml neutralising broth in non skirted tube + viscose swab	STERILE R	6 x100	10.26	0.0560
3	**200398P**	Surface sampling template 4x5 cm	STERILE R	20	0.75	0.0051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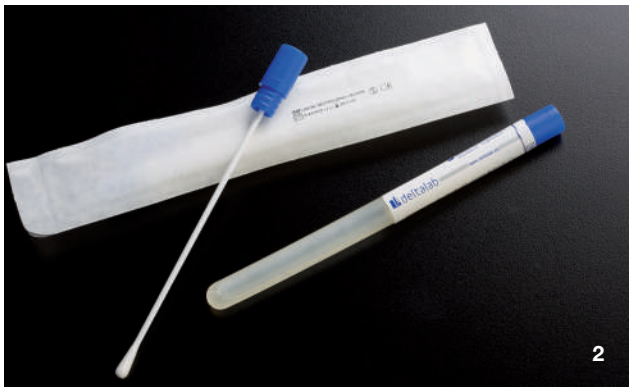
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3

Meat sampling kit

Designed according to the international standard **ISO 17604**, which is taken as reference on European Directives and Rules about microbiology of food and animal feeding stuff – carcass sampling for microbiological analysis.

The kit includes:
- A bottle containing 25ml of sterile buffered peptone water
- A disposable sterile template, supplied in a flow pack bag
- A sponge

Expiry date: 16 months.

code	packaging	sterile	case quantity	case weight	case volume
200393.V	carcass sampling kit with sponge	STERILE R	10	3.00	0.010
200393P	template meat sampling	STERILE R	20	0.75	0.0051