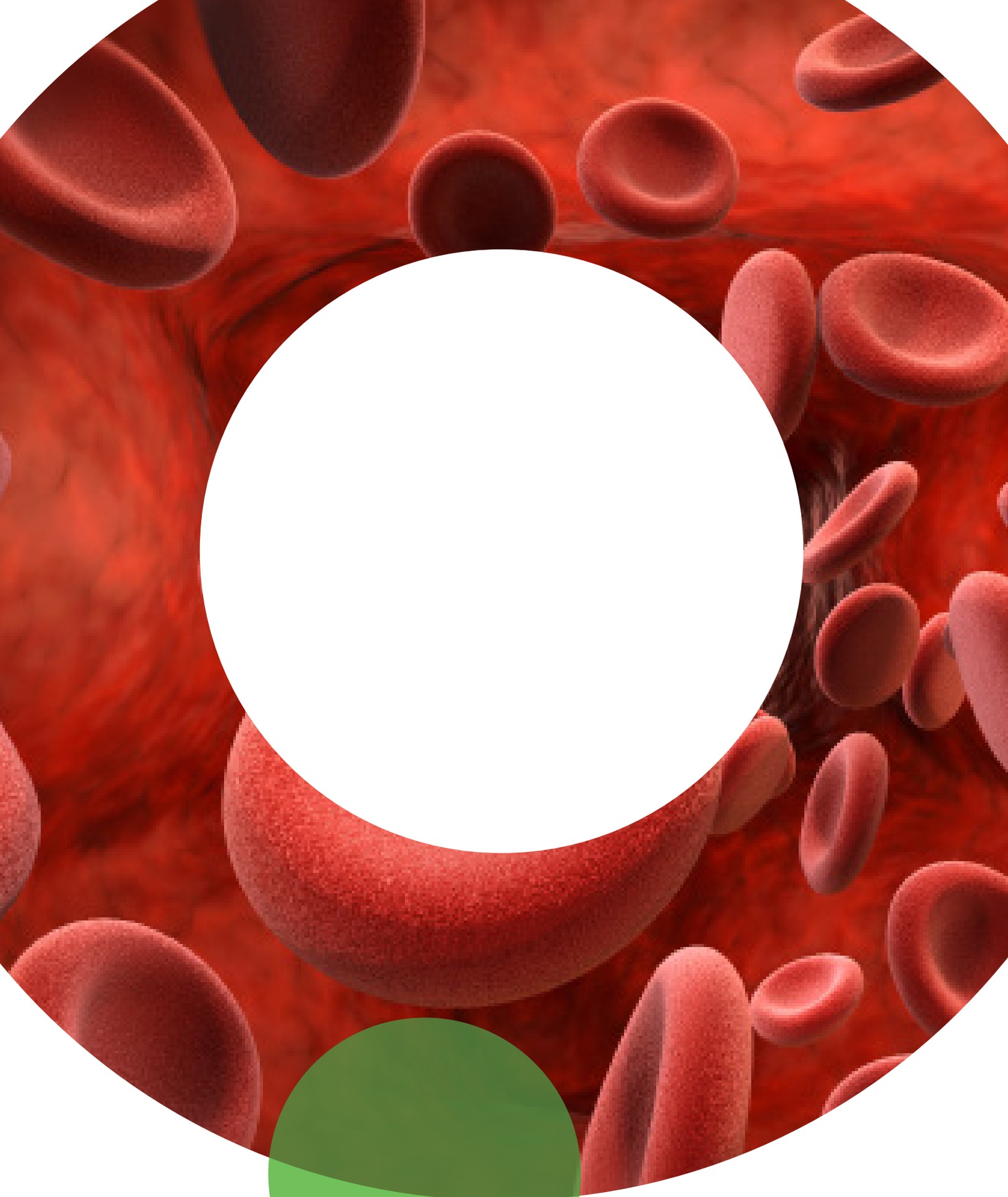


HAEMATOLOGY AND BIOCHEMISTRY

deltalab

Procedures and controls

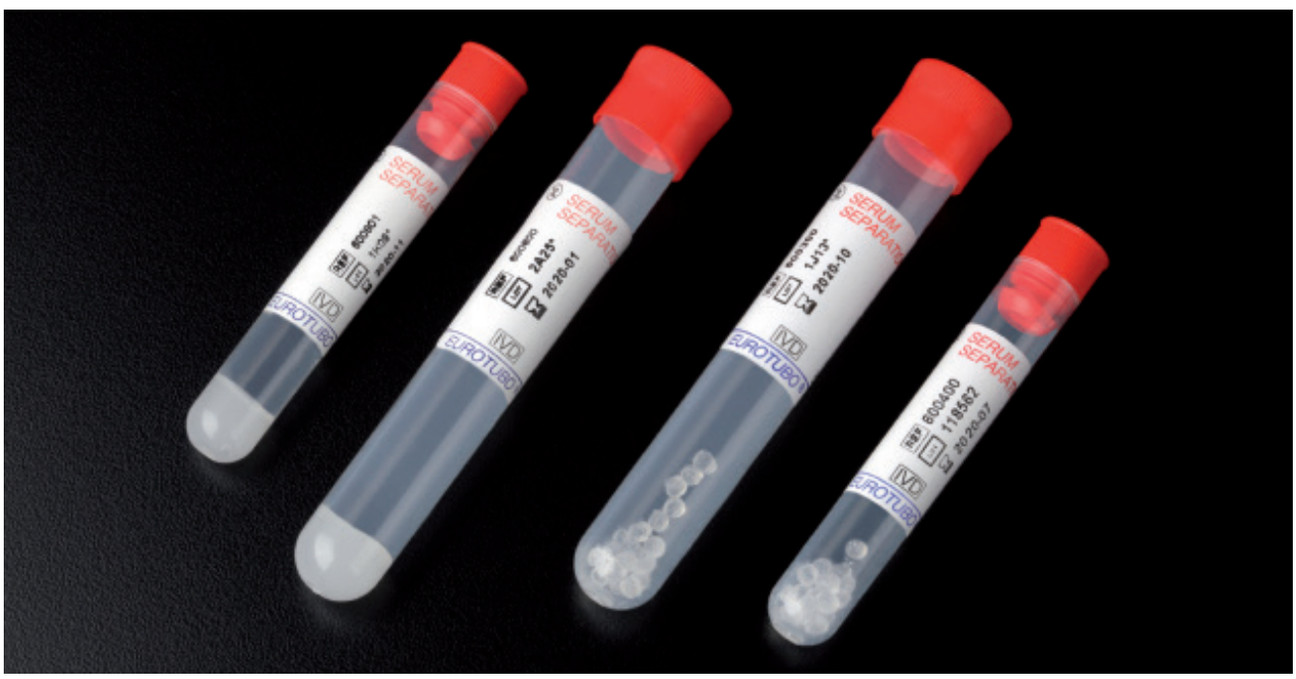
During the manufacturing process of the tubes for extraction tubes, periodic checks are carried out, among which are:

- Reproducibility dosing control
- Quantity and quality dosing control
- Watertightness control
- Centrifugal Resistance Control

Each case includes a brochure with recommendations of use.

Expiry date our tubes, anticoagulants and other

- Serum tubes (granules and gel) ..... 24 months
- Serotub Glucose ..... 12 months
- Lithium heparin ..... 24 months
- Iodoacetate heparin ..... 13 months
- Edta ..... 24 months
- Citrate for coagulation ..... 15 months
- Anticoagulants in containers ..... 24 months
- Thrombocyte count and osmotic brittleness ..... 24 months
- Reticulocyte vital staining ..... 24 months



100% Traceability

Our blood collection tubes are individually identified with its code, LOT number and expiry date, so the traceability from its manufacture to the final consumer is guaranteed. **Raw materials traceability. Process traceability. Final product traceability.**

We manufacture our blood collection tubes by following:
- Directive **98/79/EC** "In vitro" diagnostic medical devices which will be replaced by EU Regulation No. 2017/746
- **ISO 6710** Single use containers for blood collection
- **UNE-EN ISO 14971** for the Risks Management of Sanitary Products
- **UNE-EN ISO 15223-1** Labelling simbols
- **UNE-EN ISO 13485**, medical devices - quality management systems

NEW

Silicone and TPE tourniquet

Product intended for the retention of the blood flow by oppression of a corporal limb for extracting blood samples, differentiate a vein, ...etc.

Silicone tourniquet
Dimensions: 19 mm wide, 0.8 mm thickness.
Non toxic, USP, Class VI, silicone. **Autoclavable**.

TPE tourniquet
Dimensions: 25 mm wide, 0.6 mm thickness and 450 mm length.
Manufactured with TPE, thermoplastic elastomer. Latex-free product, non cytotoxis and non-irritant.

mod.	code	description	dimensions	quantity	weight	volume
	GS-01	silicone	roll of 50 m	1 x 50	0.89	0.003
1	**GS-02**	silicone	box with 10 bands 0.5 m long each	1	0.11	0.001
2	**TQ**	TPE	16 cm	1,000	7.00	0.019

Serum glucose serotub

Transparent polypropylene tubes, covered and labelled with detail of lot number, expiration and volume.

With ergonomic cap in inert polyethylene.

Tubes treated with inert additive for rapid clot retraction and serum separation.

As well as inert granules, rounded to avoid possible lesions in erythrocytes at the time of centrifugation and its consequent risk of haemolysis.

These granules act as a barrier that, without being airtight (as in the case of the gel), ensures comfortable pipetting or decanting of serum.

They allow most biochemical, glucose and creatinine measurements to be performed in a single tube, except for CPK and lithium, thus saving the use of two tubes, one for routine tests and the other for glucose.

Presentation: in black bags due to the photosensitivity of the product

Store at room temperature.

It is supplied in plastic racks.

Expiration: 12 months.

code	description	case quantity	case weight	case volume	pallet quantity
600602	13 x 75 for 4 ml blood	12 x 100	4.92	0.033	42

Ask for minimum quantity and delivery time for tube 16 x 100. 10 ml blood.

Citrate for coagulation

Made of clear polypropylene, supplied capped and labeled.

Our sodium citrate, 3.8% or 3.2% concentration, buffered and sterile has a ratio citrate: blood 1:9 and is highly recommended for coagulation tests.

Buffered to pH.

According to the prevailing rules, this liquid anticoagulant permits to determine the prothrombin time (Quick) **up to 12 hours after sample collection.**

The cap is not only easy-to-use but also assures a watertight closing; allowing a comfortable and reliable capping.

A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.

Tubes are supplied in plastic racks.

Expiration: 15 months.

code	type of coagulant	description
601102	buffered to 3.8%	13 x 75 round for 4 ml blood
601103	buffered to 3.8%	13 x 75 round for 2.5 ml blood

code	case quantity	case weight	case volume	pallet quantity
601102	12 x 100	5.30	0.033	42
601103	12 x 100	5.30	0.033	42

Serum tubes with clot accelerator and gel serum separator

Made of a clear polypropylene, supplied capped and labelled with an inert polyethylene cap.

The tubes are designed and processed to permit a fast serum and blood clot separation.

Each tube contains a special inert additive which accelerates the coagulation, and the result is a **fast clot retraction.**

The coagulation speed is, doubtlessly, much higher than the obtained with the glass tubes or the other existing tubes on the market.

The inert gel is located, after centrifugation, between the clot and the obtained serum and it works as a totally watertight barrier.

The ergonomic features of the cap design results in a very reliable and easy-to-use cap.

On the label of each tube the lot number, expiry date and volume are printed.

Supplied in plastic racks.
We strongly recommend its usage for biochemistry, routine tests, special biochemistry, markers, hormones, immunology (tube without anticoagulants).

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
600801	13 x 75 round for 4 ml	12 x 100	5.40	0.030	48
600800	16 x 100 round for 9 ml	6 x 120	6.00	0.040	36

Serum tubes with clot accelerator and gel serum separation

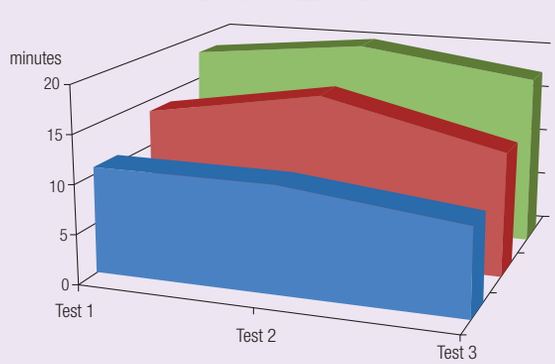
Clotting speed increased: with our the tubes processed with gel serum separator and accelerator we improve the clotting speed achieving a 20-25% advantage over glass tubes. The serum is obtained after 15 minutes, depending on the particular working conditions.

Serum volume increased: The volume obtained is higher than the obtained with granules tubes or glass tubes, achieving an advantage around 20%. The gel serum separator tube is the preferred option when analysis requires maximum serum yield from the blood sample.

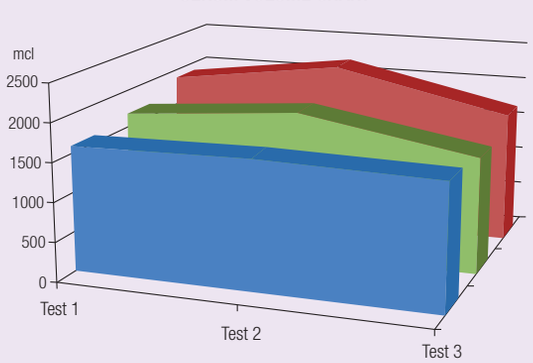
Recommended in case the objective is to obtain larger serum volume.

Note: Before using, the gel serum separator remains at the bottom, even when the tube is bent.

CLOTTING SPEED CHART



SERUM VOLUME CHART



Glass tube **Gel + accelerator** Granules + Accelerator

Serum tubes with clot accelerator and granule serum separator

Made of a clear polypropylene, supplied capped and labeled with an inert polyethylene cap.

The tubes are designed and processed to permit a **fast serum and blood clot separation.**

Each tube contains a special inert additive which accelerates the coagulation, and the result is a fast clot retraction. The coagulation speed is much higher than the obtained with the glass tubes or the other existing tubes on the market. Allows the obtention of serum in 12 min.

The inert **granules are rounded** to avoid cellular lesions during centrifugation and minimize the risk of haemolysis. These granules are located between the clot and the separated serum working as a retaining wall. It assures a comfortable pipette action or serum decanting.(It isn't a watertight barrier).

The ergonomic features of the cap design results in a very reliable and easy-to-use cap.

On the label of each tube the lot number, expiry date and volume are printed.

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
600400	13 x 75 round for 4 ml	2 x 1.000	7.90	0.045	32
600300	16 x 100 round for 9 ml	2 x 500	6.10	0.045	32
707094*	bottle of 750 g with separator granules	20	17.50	0.045	40

* Product without CE mark

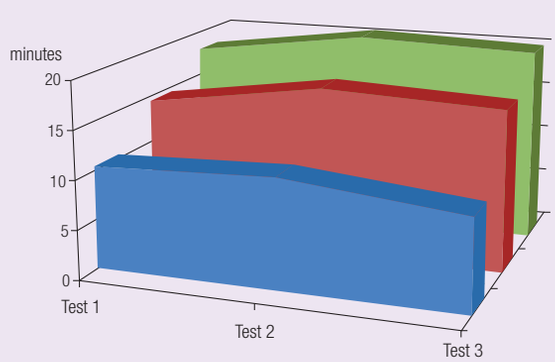
Serum tubes with clot accelerator and granules

Clotting speed increased: with our the tubes processed with granules and accelerator we achieve a clotting speed higher than the obtained not only with glass tubes but also with gel tubes. The advantage achieved is around 40-50% over glass tubes.
Serum can be obtained starting from 12 minutes, depending on working conditions.

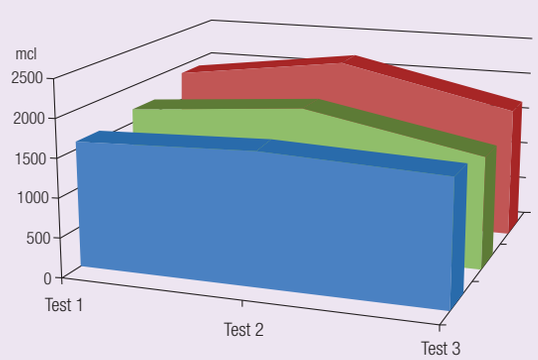
Serum volume increased: The volume obtained is a little higher than the obtained with glass tubes but fewer than the obtained with gel serum separator tubes.

Due to its effectiveness and low price this product is highly recommendable for all routine serum tests.

CLOTTING SPEED CHART



SERUM VOLUME CHART



Glass tube Gel + accelerator **Granules + Accelerator**

Lithium heparin tubes

Made of a clear polypropylene, supplied capped and labeled, indicating **filling line, lot number, and expiry date.**

The anticoagulant pulverization inside the tube optimizes the mixture and avoids the unnecessary blood dilution.

The anticoagulant mechanism is the inhibition of the thrombin action.

Supplied in plastic racks.
Type of coagulant: **spray**.

Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
601802	13 x 75 round for 4 ml blood	12 x 100	4.10	0.033	42
601803	13 x 75 round for 2.5 ml blood	12 x 100	4.10	0.033	42

Iodoacetate lithium + heparin lithium tubes

Made of a clear polypropylene, supplied capped and labeled. On the label of each tube a fill line indicates the level of blood required, as well is printed **the lot number and expiry date.**

The anticoagulant and preservative pulverization inside the tube optimizes the mixture and avoids the unnecessary blood dilution.

The blend anticoagulant-glucose preservative is ideal for biochemical tests, so it's possible to determine most of the biochemical parameters with only one tube and preserve the product stable for 4 days. It is recommended to maintain the tubes in a dark and cool place (at room temperature).

The tubes are packed in black bags in order to maintain them out of the light because the iodum is photosensitive.

Supplied in plastic racks.

Type of coagulant: **liquid**.
Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
602002	13 x 75 round for 4 ml blood	12 x 100	4.40	0.033	42
602003	13 x 75 round for 2.5 ml blood	12 x 100	4.30	0.033	42

Edta: tripotassium

Made of clear polypropylene, supplied capped and labeled.
Tetraceticetilendiamin acid, a tripotassium salt, works as an anticoagulant thanks to its capacity to fix the blood calcium. Because the anticoagulant is pulverized, it allows a mixture with the blood almost immediate.
The quantity of additive is very small so there are no dilution mistakes (this may occur in the tubes with big additive liquid solution volumes). There is no risk of anticoagulant loss when uncapping because it is adhered to the tube walls.
The cap shape, both internal and external design, assures a comfortable and reliable capping.
A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.
Supplied in plastic racks. Type of coagulant: **spray**.
Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
601613	15 x 50 flat for 2.5 ml blood	10 x 120	4.50	0.035	36
601603	13 x 75 round for 2.5 ml blood	12 x 100	4.10	0.033	42
601702	13 x 75 round for 4 ml blood	12 x 100	4.14	0.033	42

Edta: tripotassium. Rubber cap

Tubes made of clear polypropylene, supplied capped and labeled. Mauve, pierceable (but not pierced) and plugged cap made of thermoplastic rubber.
Suitable for hematological automatic machines.
The label indicates **code, volume, lot number and expiry date**, assuring total traceability.
Tubes supplied in trays of 100 units.
Type of coagulant: **liquid**.
Expiry time in 24 months.

	code	description	case quantity	case weight	case volume	pallet quantity
1	**611604**	13 x 80 for 3 ml blood	8 x 100	3.00	0.030	50
2	**611603**	13 x 75 for 3 ml blood	20 x 50	4.43	0.034	36

Blood-plasma. Edta tubes: dipotassium

Made of clear polypropylene, supplied capped and labelled.
Tetraaceticetilendiamin acid, a dipotassium salt, works as an anticoagulant thanks to its capacity to fix the blood calcium. Because the anticoagulant is pulverized, it allows a mixture with the blood almost immediate. The quantity of additive is very small so there are no dilution mistakes (this may occur in the tubes with big additive liquid solution volumes). There is no risk of anticoagulant loss when uncapping because it is adhered to the tube walls. The cap shape, both internal and external shape, assures a comfortable and reliable capping. **A volume indication mark, lot number and expiry date on the label of each tube, allows to assure the traceability of the product.**
Supplied in plastic racks. Type of coagulant: **spray**.
Expiry time in 24 months.

code	description	case quantity	case weight	case volume	pallet quantity
601402	13 x 75 round for 4 ml blood	12 x 100	4.10	0.033	42
601412	15 x 50 flat for 4 ml blood	10 x 120	4.98	0.033	36
601413	15 x 50 flat for 2.5 ml blood	10 x 120	4.26	0.033	36

E.S.R. citrate tube

Capped and labeled transparent polypropylene tubes.
Filled with 3.8% sodium citrate (anticoagulant).
The citrate: blood ratio (according to the Westergren method) is 1:4, so the tubes contain 0.4 ml of stable 3.8% sodium citrate solution.
The printed fill line indicates 2.0 ml so 1.6 ml of blood will be added.
The cap design results in a comfortable and reliable handling, specially because it is possible working with gloves without slipping.
Volume fill line, expiry date and batch number are printed on the label; so the product traceability is guaranteed.
Supplied in 100 units plastic racks.

Expiry time in 15 months.

code	description	case quantity	case weight	case volume
601006	round tube 13 x 75 mm for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033

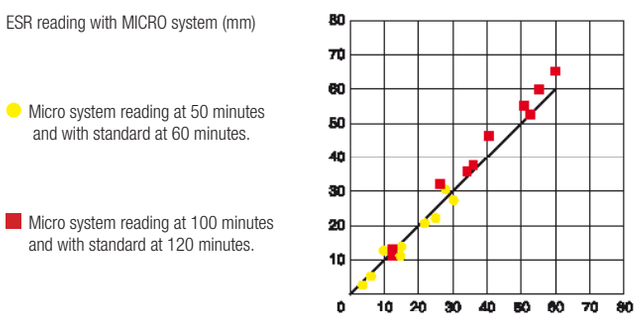
Pallet quantity: 42 cases.

Sedirate micro system

System for the determination of the erythrocyte sedimentation rate. Specially recommended for **Paediatrics**. The system consists of a tube and a pipette. The tube includes a pierceable and re-sealable stopper. Filled with 0.08 ml of trisodic citrate 0.106 M for 0.32 ml of blood according to standards of Westergren standard method.The pipette of pressure filling has an inner diameter of 1.25 mm and is graduated. Once blood and citrate are mixed together, introduce the pipette into the tube (without removing the stopper). The blood will automatically reach the 0 level. The results obtained are comparable to those obtained with the standard method (macro).

Expiry time in 12 months.

Comparation of the ESR reading obtained with the Micro system and standard type



code	description	case quantity	case weight	case volume
27	set pipette + tube	400	3.28	0.029

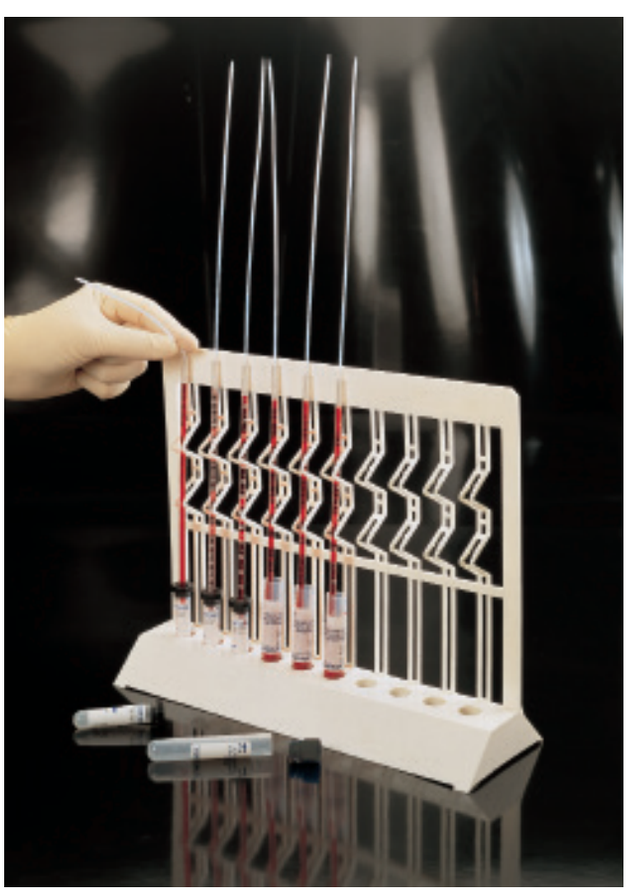
E.S.R. semi micro system TAKIVES with self-levelling system

Pipette graduated from 0 to 160 mm, with a total length of 200 mm and an inner diameter of 2.5 mm, according to the Westergren Method.
The **system accepts a total volume of 1 ml.**
The plunger must be drawn up manually up to a limit inside the pipette to ensure an adequate volume of blood-citrate blend.
Two tubes available, both made of high transparency polypropylene:
Code **601006**: for 2 ml of total volume (1.6 ml of blood); with a polyethylene cap that shall be taken off before inserting the pipette.

Expiry date: 15 months.
Take a reading after 1 hour and the second after 2 hours

code	description	case quantity	case weight	case volume
1360	graduated pipette	2 x 500	3.35	0.008
1361*	stand for 10 pipettes	5	3.20	0.020
601006	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033
1164	tube 12 x 55 with citrate pierceable cap	10 x 100	3.02	0.020

* Product without CE mark



E.S.R. with self-levelling system

Westergren method. *1st reading at 1 hour and 2nd reading at 2 hours.*

Code 29
Consists of a polystyrene pipette with self-filling system using a plunger suitable for 12 mm or 13 mm O tubes. Graduated from 0 to 180 mm. 1.25 ml blood-citrate mixture is enough for determination.
Expiry date: 15 months.

Code 132832
Consists of a Soda glass pipette up to 180 ml, in white screen printed, with a piston in low density polyethylene incorporated.
Measures: 210 x 4.5 mm. **Expiry date**: 60 months.

Code 601006
Ultra-clear polypropylene tube and black cap in low density polyethylene. Inert Labelling with packaging date, code printing, lot number and expiration date.
Expiry date: 15 months.

Code 1361
Plastic stand for ten tubes with their respective pipettes. Excellent stability, thanks to its broad base and the metallic counterweight it incorporates.

code	description	case quantity	case weight	case volume
29	E.S.R. pipette. 230 mm long graduated up to 180 mm	3 x 200	2.60	0.027
132832	glass pipette SVG 180mm + plunger	4 x 500	3.15	0.0026
601006	tube 13 x 75 mm with sterile citrate for 2 ml (1.6 ml of blood)	12 x 100	4.87	0.033
1361*	stand for 10 pipettes	5	3.20	0.020

* Product without CE mark

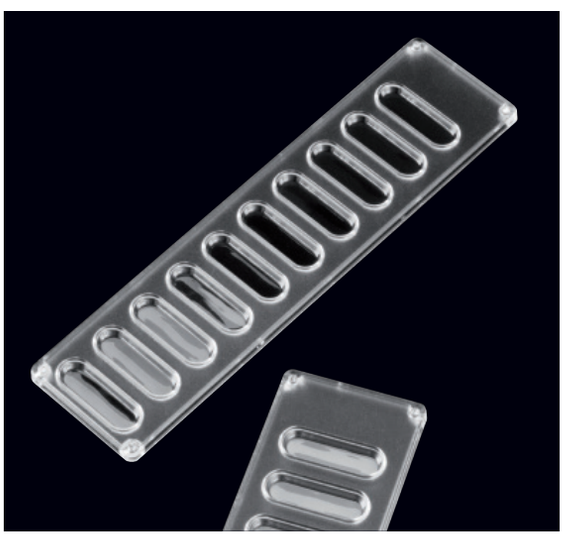
Mailing container

Mailing container with safety screw blue cap, both manufactured in polyethylene.
Leak proof.

Dimensions uncapped 117 x 30 mm. Ideal for 10 ml tubes.
The tube includes a piece of absorbent paper to prevent any leakage.
Container and cap are sold separately.

External mouth diametre 24,5 mm, internal: 21 mm.

code	description	case quantity	case weight	case volume
401301	mailing container	500	7.70	0.090
401302	screw cap	500	1.90	0.095



Blood group test plate

Made of ultra clear polystyrene.
Features 10 numbered wells.
Stackable.

Dimensions: 160 x 40 x 6 mm.

code	description	case quantity	case weight	case volume
128030	blood group plate	25 x 10	3.70	0.014

Syringes

3-piece syringes formed by body, plunger and sealing gasket.
Transparent PP cylindrical body, with support fins and provided with a ring Safety that prevents accidental exit of the piston.
With an indelible graduated scale according to the International System of Measurements.
In unitary container, sterilized by ethylene oxide.
Non-pyrogenic and latex free product, PVC and Phthalates.
For version with ajuga, contact the commercial department.

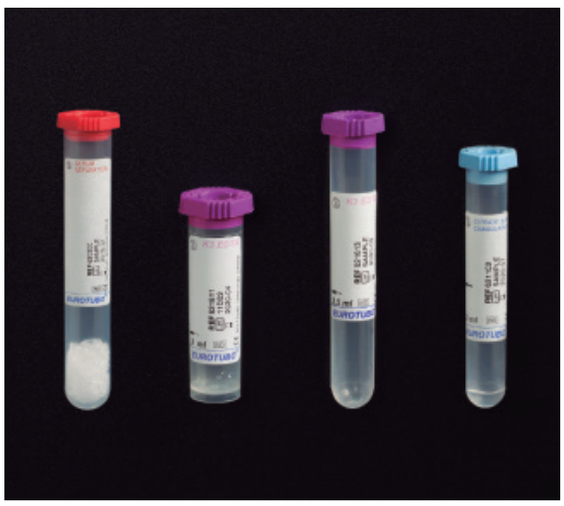
NEW

code	description	case quantity	case weight	case volume	volume du carton
JS1	1ml	3C centered luer	32 x 100	13	0.113
JS2	2ml	3C centered luer	30 x 100	13	0.113
JS3	5ml	3C centered luer	24 x 100	15	0.113
JS4	10ml	3C eccentric luer	16 x 100	15.5	0.113
JS5	20ml	3C eccentric luer	16 x 50	14	0.100
JS6	60ml	3C eccentric luer	16 x 25	16	0.120
JS8	60ml	3C catheter	16 x 25	17.00	0.120
JS9	100ml	3C catheter luer adapter	4 x 25	6.5	0.060

Blood collection tubes with pierceable and re-sealable rubber caps

Manufactured from transparent polypropylene. Robust and resistant to breakage. Tubes feature a unique flexible rubber cap which has two cross cuts and is specially designed to reseal automatically after introduction or withdrawal of the sample. This system eliminates the need to remove the stopper when introducing or withdrawing blood samples. Tubes can be used with most manual, semi-automatic and automatic blood sampling machines, and are suitable for transportation by intra hospital pneumatic systems.

Blood collection tubes



code	type	description	expiration months	case quantity	case weight	case volume
621611	edta tripotassium	16 x 55 skirted for 2.0 ml	24	10 x 100	3.50	0.034
621613	edta tripotassium	13 x 80 for 2.5 ml	24	8 x 100	2.98	0.031

Pallet quantity: 50 cases.

Special pediatrics

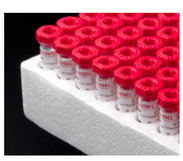
See speed sedimentation citrate for pediatrics in the page 80.

code	type	description	expiration months	case quantity	case weight	case volume
621610	edta tripotassium	12 x 55 for 1 ml	18	10 x 100	2.82	0.024
621101	citrate for coagulation	12 x 55 for 1 ml	15	10 x 100	2.84	0.024

Pallet quantity: 50 cases.

Tubes for small blood volumes

Tubes intended for use by health professionals in clinical analysis laboratories and venous blood sample collection units.
Main use for collection of venous blood sample for blood cell count (cell structures at room temperature remain stable for a period not exceeding 4 hours after extraction)
Others: Obtaining plasma (for biochemical determinations in general except for triglycerides by enzymatic methods, glucose, potassium and calcium)
Recommended in pediatrics or for low blood volumes.



Accesory available under request to the commercial department.

See speed sedimentation citrate for pediatrics in the page 80.

code	type	description	expiration months	case quantity	case weight	case volume
1501118	tripotassium edta	11 x 40 skirted for 1ml	18	10 x 100	2.3 kg	0.017
1501308	coagulation citrate	11 x 40 skirted for 1ml	15	10 x 100	2.3 kg	0.017
1501418	heparin	11 x 40 skirted for 0.8ml	15	10 x 100	2.5 kg	0.017
1501818	serum separator	11 x 40 skirted for 0.8ml	15	10 x 100	2.5 kg	0.017

Common problems in centrifugation

PROBLEM		POSSIBLE CAUSES	REASON FOR MISUSE	SOLUTION
The barrier is not clearly defined	Poor or incomplete serum separation. Barrier is intact and well defined	Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 times	After tube is filled with blood and capped, gently invert the tube for 5 times
		Early centrifugation, insufficie nt allowance coagulation time prior to centrifugation	The recommended 30 min. standing time for coagulation was not observed	Wait for 30 min before centrifugation
		Centrifugation xg-setting under appropriate value	The tube was not centrifuged at or above the minimum, appropriate xg-setting	a) Set the centrifuge between 1,000-1,500 xg b) Confirm centrifuge is correctly calibrated
	Barrier is skewed and poorly formed, separation is incomplete	Less centrifugation time than recommended	The tube was not centrifuged for the required time	Centrifuge the tube at the appropriate xg-force for at least 10 min
		Refrigerated centrifuge	The temperature of the centrifuge was lower than the recommended	a) Keep the centrifuge at a temperature between 24 ºC and 26 ºC (around 77 ºF). b) Thermally insulate the tube and avoid contact with the centrifuge and centrifuge rotor
Blood tubes fracture during centrifugation		xg-force centrifugation exceeded the tube construction	The tube was subjected to xg-forces exceeding 1,500 xg	Maintain centrifuge at or below 1,500 xg
		Centrifuge not positioned level and/or foreign matter or debris inside the rotor of the centrifuge	a) Shock absorbers or tube stand-off cushions absent. b) The inside of the rotor is not clean	Install shock absorbers or tube stand-off cushions as required. Remove any foreign agent or debris that may be inside the centrifuge
Cell clumps observed within the separation barrier		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 times	Invert the tube for 5 times
		Insufficient time before centrifugation	The recommended 30 min standing time for coagulation was not observed	Wait for 30 minutes before centrifugation
		Excessive xg-force centrifugation	The tube was centrifuged at above 1,500 xg	Set the centrifuge at a speed below 1,500 xg
Presence of fibrin in serum		Incomplete or inhibited coagulation. Non-homogeneous blend of blood and coagulant	The tube was not inverted for 5 times	Invert the tube for 5 times
		Early centrifugation, insufficient allowance coagulation time prior to centrifugation	The recommended 30 min standing time for coagulation was not observed	Wait for 30 minutes before centrifugation
Abnormal assay results		Poor serum quality due to haemolysis	Blood subject to aggressive agitation or rough handling	Handle tube with moderation. Invert gently. Never shake severely or agitate the tube
		Excessive xg-force centrifugation	The tube was centrifuged above 1,500 xg	Set the centrifuge to a maximum of 1,500 xg xg-force

Anticoagulants and preservatives in containers

Available in bottles of 15 ml.
The dosage of one drop (15 ml = 300 drops) is enough for 5 ml of blood.
Both products have preservatives for stability.
Code **705000** composition: lithium heparin, phenylmercury acetate and distilled water. Prepared according ISO 6710. Heparin concentration between 12 and 30 µl for each ml of blood.

Expiry date: 24 months.

code	description	case quantity	case weight	case volume
705000	Lithium heparine 15 ml	10	0.29	0.00019

Special techniques

Liquid for thrombocyte count determination:
Due to its optical characteristics it identifies the thrombocyte avoiding confusion with other cells. This reagent also prevents adhesion and aggregation of the thrombocytes. Full instructions are included with the kit.

Test of osmotic brittleness of the erythrocytes:
The test for the erythrocyte osmotic fragility detects the resistance of these cells to haemolysis, in hypotonical solutions with decreasing concentration of sodium chloride.
This set contains 2 complete tests and each one is composed of 12 tubes with stable and buffered solutions. Full instructions are included in the kit.
Expiry date: 24 months.

code	description	case quantity	case weight	case volume
800000	thrombocyte counting kit 1 x 50 tubes	30 kits	5.50	0.045
802000	osmotic brittleness of erythrocytes kit 2 x 12 plus 2 lithium heparine tubes	30 kits	7.50	0.045

Minimum order quantity: 1 kit.

Reticulocyte staining kit

This simple to use kit consists of a tube containing 100 µl of stable buffered bright cresil blue stain which allows the determination of the erythrocyte count.
Two to three drops of blood are added directly to the tube and incubated for 10 minutes at room temperature.
The erythrocytes become a pale blue colour making them easy to identify.
Full instructions are included with the kit.
Tube made of polypropylene and cap of polyethylene.

Expiry date: 24 months.

code	description	case quantity	case weight	case volume
801000	reticulocyte count kit (1 x 50 tubes)	30 kits	5.50	0.046

Minimum order quantity: 1 kit.

Colorants pour Hématologie

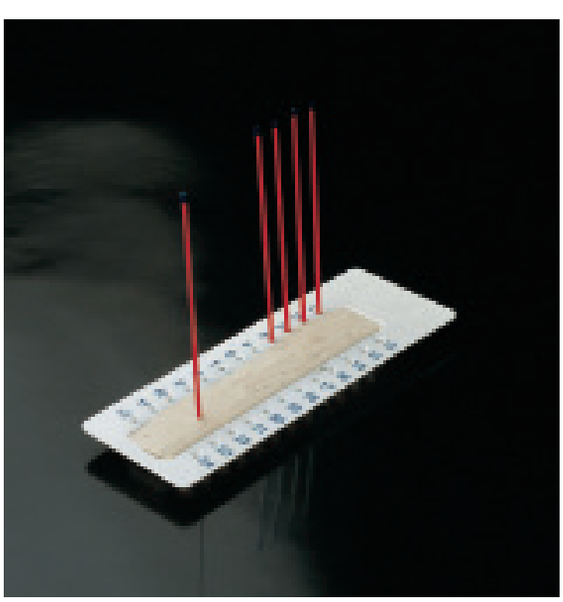
Please see more information (page 105) about these stains at chapter **Histology, Microscopy and Staining**.

code	description	volume	dangerousness	case quantity	case weight	case volume
Coloration by May Grunwald						
808000	Eosin	250 ml bottle	H225, H331, H311, H301, H370	16	4.80	0.015
808001	Eosin	1,000 ml bottle	H225, H331, H311, H301, H370	12	13.00	0.045
Coloration by Giemsa						
808100	Eosin	250 ml bottle	H225, H331, H311, H301, H370	16	5.16	0.015
808101	Eosin	1,000 ml bottle	H225, H331, H311, H301, H370	12	13.00	0.045
Coloration by Wright						
808200	Eosin	flacon de 250 ml	H225, H331, H311, H301, H370	16	4.43	0.015
805013	fast stain for blood extensions	250 ml containers, **Kit** with 2 containers of each type		12 Kits	14.95	0.045

Microhaematocrit capillary tubes

Soda neutral glass tubes with a colour-coded print for an easier identification, with sodium heparin (red) or without heparin (blue).
Supplied inside a glass tube with a plastic cap, specifying code, lot and expiry date.
Two lengths available: 70 or 75 mm (± 0,5 mm).
They meet ISO 12772.

code	description	external diameter	volume µl	case quantity	case weight	case volume
7301	75 mm with heparin	1.4-1.7	75	10 x 100	0.36	0.0006
7311	75 mm without heparin	1.4-1.7	75	10 x 100	0.36	0.0006
7401	70 mm with heparin	1.5-1.6	70	10 x 100	0.36	0.0006
7411	70 mm without heparin	1.5-1.6	70	10 x 100	0.36	0.0006



Capillary tubes sealing wax

Vinyl plastic wax, in a numbered (from 1 to 24) plastic holder.
Suitable for all capillary tubes, specially for those that have to be centrifuged, like micro-haematocrit capillary tubes.
Must be preserved in temperatures from 8 ºC to 30 ºC.

code	description	case quantity	case weight	case volume
7600	sealing wax	3	0.07	0.0002

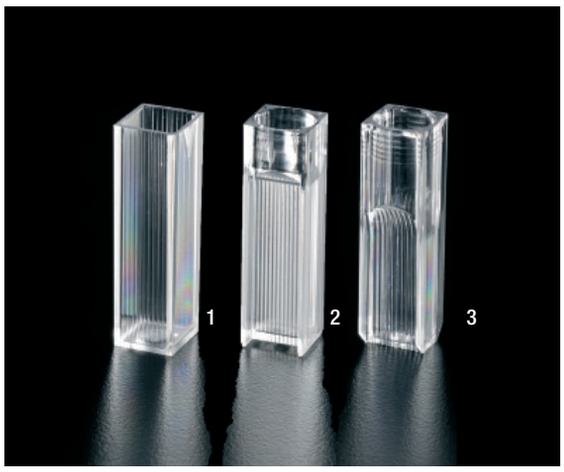
Spectrophotometer cuvettes

Disposable cuvettes suitable for most of the open spectrophotometers. Homogeneous measures, specially of the surface crossed by the light beam, assuring an optimum transmission level on the whole visible spectral.
The material used avoids any possible measurement interference. Due to the strict quality control during the manufacture process, a high reliability is assured. The maximum absorption variations are ± 1%.

The two sides not crossed by the light beam are ribbed to an easy identification of the cuvette position inside the spectrophotometer measurement chamber, resulting in an easy positioning and removal.

They are supplied in a dust proof, expandable polystyrene box (100 units per box) with lid.

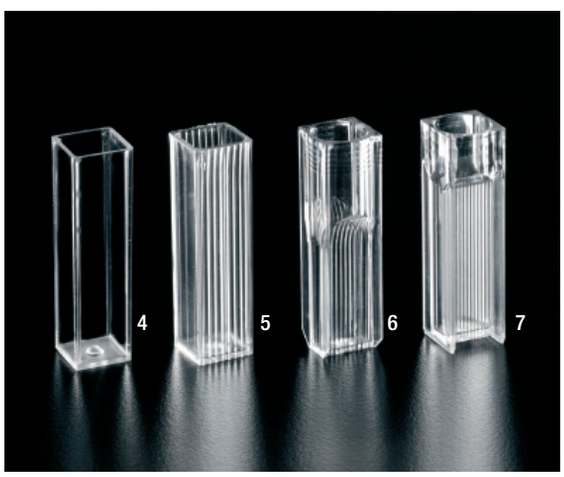
Dimensions: 12.55 x 12.65 x 44.55 mm (± 0,1 mm).
Light path: 10 mm.



Standard cuvettes

Made of polystyrene for assays in the visible spectral range (340 to 800).

	code	description	case quantity	case weight	case volume
1	**302000**	4.5 ml macro	5 x 100	1.60	0.020
2	**302100**	1.5 ml micro	5 x 100	1.60	0.018
3	**302400**	2.5 ml semimicro	5 x 100	1.40	0.018

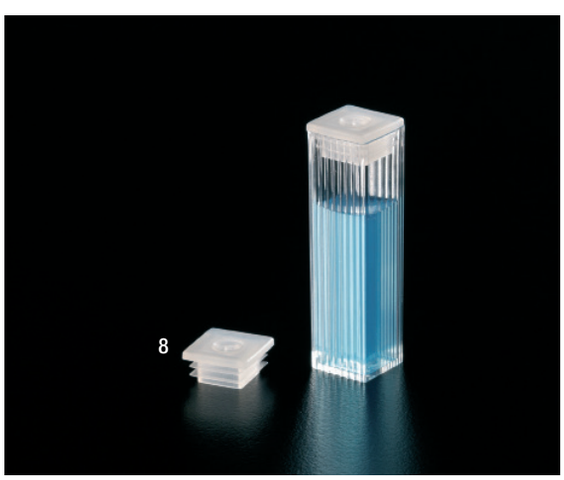


Special UV grade cuvettes

Made of UV grade PMMA for accuracy throughout UV/Vis range (280 to 800).

Model **303100** with four clear sides is ideal for fluorometry and nephefelometry.

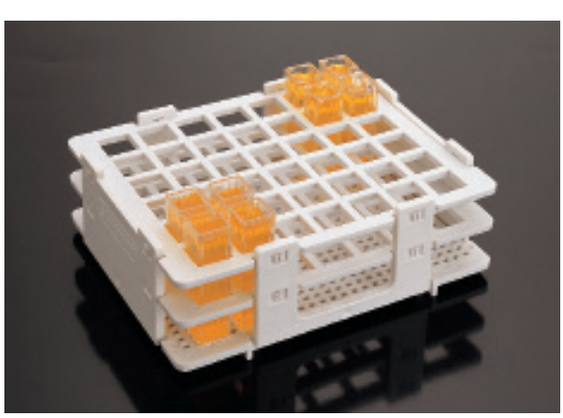
	code	description	case quantity	case weight	case volume
4	**303100**	4.5 ml 4 sides transparent	5 x 100	1.60	0.018
5	**303102**	4.5 ml macro	5 x 100	1.60	0.018
6	**303101**	2.5 ml semimicro	5 x 100	1.65	0.015
7	**303103**	1.5 ml micro	5 x 100	1.82	0.019



Cap

In polyethylene.
Suitable for the macro cuvettes, 4.5 ml (**302000**, **303100**, and **303102**)

	code	description	case quantity	case weight	case volume
8	**304000**	polyethylene cap	1,000	0.20	0.002



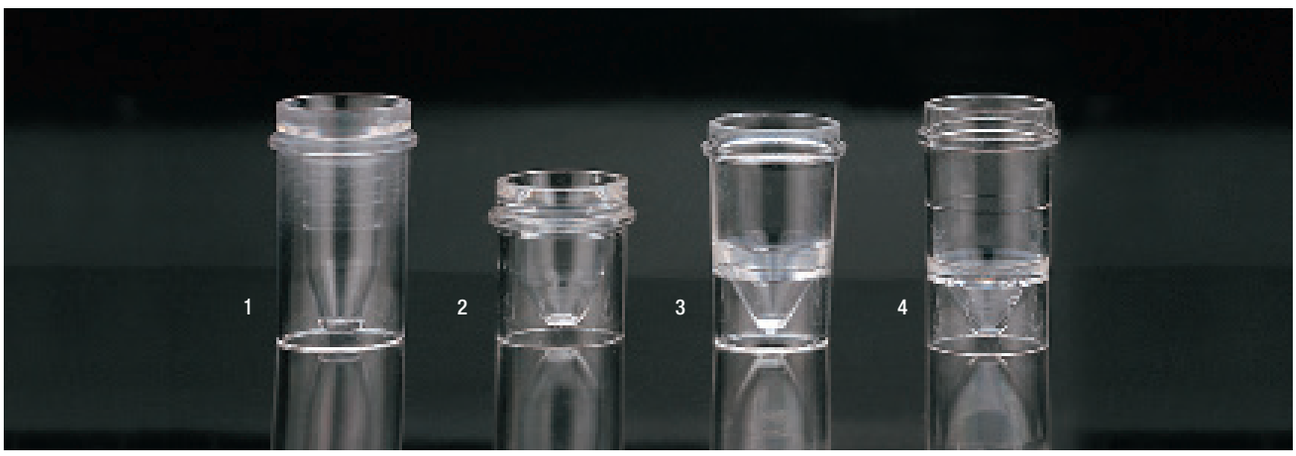
Please see our rack for the spectrophotometer cuvettes, code **M-100**, on chapter **Sample Storage.**

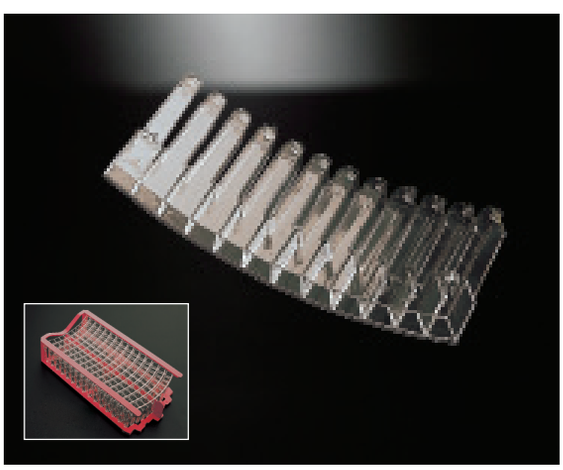
deltalab

Sample cups

Polystyrene cups. For caps, please contact commercial department.

mod.	code	capacity	type	Ø ext. mm	height mm	case quantity	case weight	case volume
1	**900024**	0.50 ml	Gemsaec, Kone Lab 20	13.55	24.50	10 x 1,000	13.82	0.066
2	**900023**	0.25 ml	Centrifichem	13.70	16.40	14 x 1,000	15.00	0.070
3	**900022**	1.50 ml	Technicon	13.80	22.60	10 x 1,000	10.60	0.067
4	**910022**	2.00 ml	Technicon	13.75	24.90	10 x 1,000	10.92	0.068

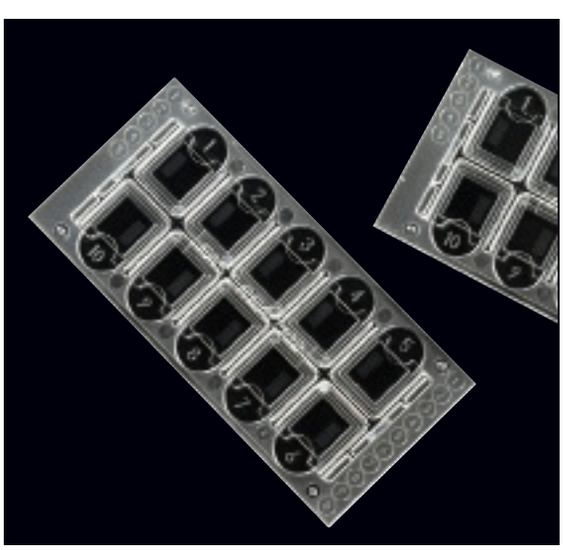




Cobas Mira cuvette segments

Multicuvettes made of PMMA.
Rack made of polypropylene (colour: red).
For use on Cobas Mira.
Light path: 6 mm.
Complete rack with 15 segments of 12 cuvettes.

code	description	case quantity	case weight	case volume
900019	complete rack: 15 segments of 12 cuvettes	30	9.00	0.041



“Fast read” plate for urinary sediment cell count

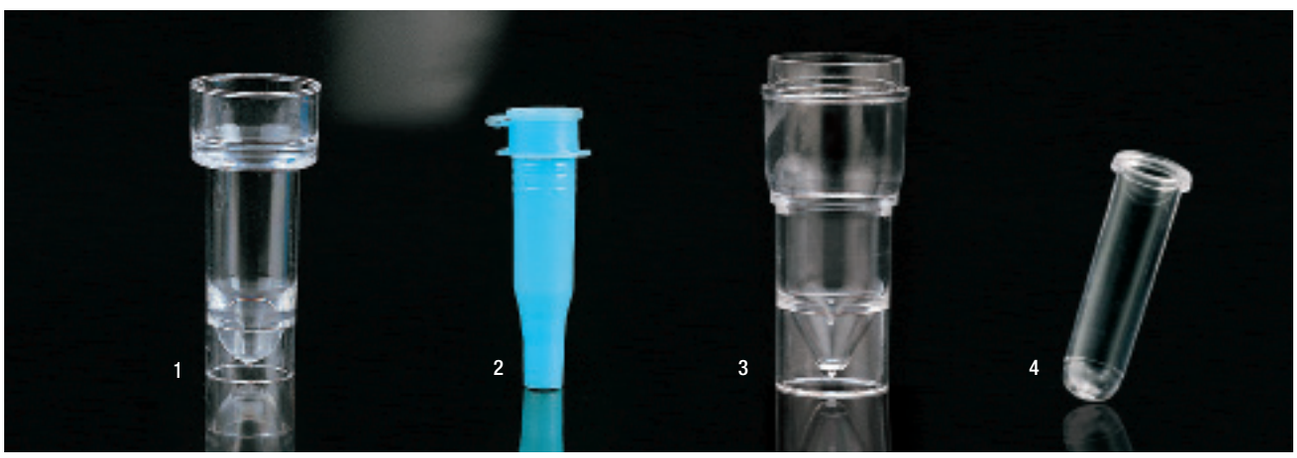
Disposable plate for determining µL cells in the sample.
Using this system a smaller number of epithelial cells present in each field can be achieved, reducing the possibility of overlap with other cells. Ensures a more careful and precise result, providing technical staff to determine presence of cellular elements.

code	description	case quantity	case weight	case volume
141746	fast read plate for urinary sediment cell count	100	0.30	0.0008

Sample cups

Cups are made of polystyrene, except code **900008** which is made of HDPE.
Also available under request the 1.5 cup Amelung type with stain ball and the 0.5 cup Sysmex type.

mod.	code	capacity	type	Ø ext. mm	height mm	case quantity	case weight	case volume
1	**900020**	2.50 ml	Hitachi	16.75	38.0	6 x 1,000	11.01	0.071
2	**900008**	0.70 ml	Cobas bio	7.65	35.5	12 x 1,000	8.40	0.067
3	**910023**	4.00 ml	Technicon	16	37.9	6 x 1,000	12.20	0.069
4	**910026**	0.5 ml (0.8 ml total volume)	Sysmex	10 / 7.5 (± 0.2)	30	10 x 2,000	11.02	0.061



Scintillation vials

Single use vials made of high density polyethylene to minimize solvent losses.
Screw caps made of polypropylene ensure a leakproof seal.
Compatible with most liquid scintillation counters available on the market.
2 models available: code **900100**, standard volume 20 ml, and code **900101**, volume 4 ml, designed for insertion in the 20 ml vial so as to minimize the volume of scintillation liquid.
Dimensions:
Vial 20 ml: 26.5 x 60.10 mm (Ø x h)
Minivial 4 ml: 13.71 x 53.60 mm (Ø x h).

code	description	case quantity	case weight	case volume
900100	scintillation vial (20 ml)	1,000	7.90	0.069
900101	minivial (4 ml) for the above vial	2,000	5.90	0.041

Coulter counter cups

Coulter counter cups: single use polystyrene cups suitable for any Coulter.
Two models available, with or without lid. Volume: 20 ml.
Dimensions: 30 x 56 mm (Ø x h).

code	description	case quantity	case weight	case volume
200103	coulter counter cup with lid	1,000	7.80	0.090