



Blood Collection

Ensy™ Product Catalog

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Ensy™ Product Catalog

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EnsyTRACE™ Full documentation, certification, and lot traceability



When you see the EnsyTRACE™ logo next a product, this is your added assurance that Ensy™ will provide timely documentations, certifications, and full traceability of lot numbers for each of your orders.

Ensy™ implemented great measures across it's supply chain and quality assurance workflows to ensure that your products comply with the strict quality standards of a highly regulated industry, and that you're notified in a timely manner of any changes that may impact the quality of the lot numbers that you've purchased.

How Ensy™ ensures full traceability and adherence to quality



Ensy ASAP™ manufacturing process streamlines R&D, product development, and manufacturing, while maintaining the signature quality Ensy™ clients have come to expect.



ANALYZE

Our R&D team is constantly analyzes client feedback to improve our products and solutions, and better tailor to their needs.



SOURCE

Our R&D team is on the constant lookout for the most advanced materials in the market covering the most demanding applications.



AUDIT

Our experts follow Ensy PURE™ QC standards and ensure products meet regulatory requirements and ensure consumer safety.



PRODUCE

We produce high-quality products, while ensuring consistency and reliability across each and every production run, regardless of size and complexity.



Every single Ensy™ product passes through our strict PURE™ 4-stage Quality Control Process before it reaches your hand. We don't leave anything to chance.



PRE-PRODUCTION INSPECTION

Pre-Inspect raw materials and components prior to production, along with extensive supplier audits ensure that our partners have implemented vital processes to ensure consistent quality.



UPHOLD

Uphold Quality standards during production with in-line inspections and during-production tests, to identify and eliminate any defects that may cause variations in quality or durability.



RELEASE

Release Testing through lab sampling and analysis to ensure that finished products meet established quality and safety standards as well as GMP requirements prior to final inspection.



END OF LINE

End Of Line and strict field inspections ensure quality, compliance, safety requirements. Documentation and lot numbers are traced at every step and associated with your order number.



Venous blood sampling

Serum analysis

Serum tubes are available in glass and plastic (PET) variants, with your choice of paper, transparent, or UV printed labels. Draw volumes not shown below are available upon request.

Clot activator tubes

Used for preparing premium serum for determinations in biochemistry, immunology, trace element, serology, and various types of virus detection.

In both glass and PET tubes the surface acts as a clot activator.



Clot activator tubes (PET)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039125	2.0	13 x 75	Clot Activator	PET	Safety cap	Red
NC039126	3.0	13 x 75	Clot Activator	PET	Safety cap	Red
NC039127	4.0	13 x 75	Clot Activator	PET	Safety cap	Red
NC039128	5.0	13 x 100	Clot Activator	PET	Safety cap	Red
NC039129	6.0	13 x 100	Clot Activator	PET	Safety cap	Red
NC039130	8.0	16 x 100	Clot Activator	PET	Safety cap	Red
NC039131	9.0	16 x 100	Clot Activator	PET	Safety cap	Red
NC039132	10.0	16 x 100	Clot Activator	PET	Safety cap	Red



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Serum analysis

Clot activator tubes

Clot activator tubes (Glass)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039117	2.0	13 x 75	Clot Activator	Glass	Safety cap	Red
NC039118	3.0	13 x 75	Clot Activator	Glass	Safety cap	Red
NC039119	4.0	13 x 75	Clot Activator	Glass	Safety cap	Red
NC039120	5.0	13 x 100	Clot Activator	Glass	Safety cap	Red
NC039121	6.0	13 x 100	Clot Activator	Glass	Safety cap	Red
NC039122	8.0	16 x 100	Clot Activator	Glass	Safety cap	Red
NC039123	9.0	16 x 100	Clot Activator	Glass	Safety cap	Red
NC039124	10.0	16 x 100	Clot Activator	Glass	Safety cap	Red



AVAILABLE Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Serum analysis

Clot activator and gel tubes

These tubes contain an inert gel barrier that separates the serum from the blood clot during centrifugation, preventing contamination of the serum. For example, in serum certain analytes such as potassium, phosphorus and glucose should be separated from the cells within a few hours - otherwise the results will be significantly impacted.

In both glass and PET tubes the surface acts as a clot activator.

The main advantages of gel tubes versus non-gel tubes are:

- Stable barrier between serum and clotted blood during transportation and storage, leading to better analyte stability.
- Better sample quality.
- Optimisation of the work flow: short centrifugation time, sample processing and archiving in the primary tube.
- No requirement for secondary tubes, reducing the possibility of mis-identification.



Clot activator and gel tubes (PET)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039110	2.5	13 x 75	Clot Activator and Gel	PET	Safety cap	Gold
NC03919	3.5	13 x 75	Clot Activator and Gel	PET	Safety cap	Gold
NC039114	4.0	13 x 100	Clot Activator and Gel	PET	Safety cap	Gold
NC039113	5.0	13 x 100	Clot Activator and Gel	PET	Safety cap	Gold
NC039112	6.0	13 x 100	Clot Activator and Gel	PET	Safety cap	Gold
NC039111	7.0	16 x 100	Clot Activator and Gel	PET	Safety cap	Gold
NC039115	8.0	16 x 100	Clot Activator and Gel	PET	Safety cap	Gold
NC039116	8.5	16 x 100	Clot Activator and Gel	PET	Safety cap	Gold



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.

PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Serum analysis

Clot activator and gel tubes

Clot activator and gel tubes (Glass)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC03911	2.5	13 x 75	Clot Activator and Gel	Glass	Safety cap	Gold
NC03912	3.5	13 x 75	Clot Activator and Gel	Glass	Safety cap	Gold
NC03913	4.0	13 x 100	Clot Activator and Gel	Glass	Safety cap	Gold
NC03914	5.0	13 x 100	Clot Activator and Gel	Glass	Safety cap	Gold
NC03915	6.0	13 x 100	Clot Activator and Gel	Glass	Safety cap	Gold
NC03916	7.0	16 x 100	Clot Activator and Gel	Glass	Safety cap	Gold
NC03917	8.0	16 x 100	Clot Activator and Gel	Glass	Safety cap	Gold
NC03918	8.5	16 x 100	Clot Activator and Gel	Glass	Safety cap	Gold



AVAILABLE Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Coagulation analysis

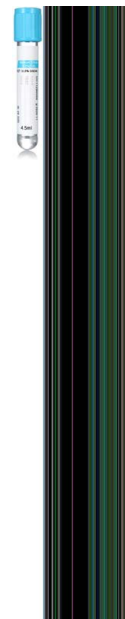
Citrate tubes

Trisodium citrate is used as an anticoagulant for coagulation investigations. It works as an anticoagulant by forming complexes with metal ions such as calcium, thereby inhibiting the coagulation cascade. Anticoagulation with trisodium citrate is reversible.

Citrate tubes contain buffered trisodium citrate in accordance with recommendations:

- 0.109 M of buffered trisodium citrate solution, equivalent to 3.2% trisodium citrate
- 0.129 M of buffered trisodium citrate solution, equivalent to 3.8% trisodium citrate

The blood to additive ratio is 9:1.



Citrate tubes (0.109M, 3.2%)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039144	1.8	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039145	2.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039147	2.7	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039146	3.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039138	3.6	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039139	3.6	13 x 100	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039148	4.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039142	4.5	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue
NC039143	4.5	13 x 100	Sodium Citrate (0.109M, 3.2%)	PET	Safety cap	Blue



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Coagulation analysis

Citrate tubes

Citrate tubes (0.129M, 3.8%)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039133	1.8	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039135	2.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039134	2.7	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039136	3.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039137	3.6	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039140	4.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue
NC039141	4.5	13 x 100	Sodium Citrate (0.129M, 3.8%)	PET	Safety cap	Blue



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Plasma analysis

Lithium heparin / Sodium heparin tubes

Plasma tubes for clinical chemistry are available with spray-dried sodium heparin or lithium heparin additives. Heparin acts as an anticoagulant by creating a complex with antithrombin III. This complex inhibits thrombin and the activated factor X and thus prevents coagulation.

For clinical chemistry, lithium heparin is generally preferred over sodium heparin.



Lithium heparin tubes

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039149	2.0	13 x 75	Lithium Heparin	PET	Safety cap	Green
NC039150	3.0	13 x 75	Lithium Heparin	PET	Safety cap	Green
NC039151	4.0	13 x 75	Lithium Heparin	PET	Safety cap	Green
NC039154	5.0	13 x 100	Lithium Heparin	PET	Safety cap	Green
NC039160	6.0	13 x 100	Lithium Heparin	PET	Safety cap	Green
NC039161	9.0	16 x 100	Lithium Heparin	PET	Safety cap	Green
NC039158	10.0	16 x 100	Lithium Heparin	PET	Safety cap	Green
NC039157	10.0	16 x 100	Lithium Heparin	Glass	Safety cap	Green

Sodium heparin tubes

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039152	3.0	13 x 75	Sodium Heparin	PET	Safety cap	Green
NC039153	4.0	13 x 75	Sodium Heparin	PET	Safety cap	Green
NC039155	5.0	13 x 100	Sodium Heparin	PET	Safety cap	Green
NC039156	6.0	13 x 100	Sodium Heparin	PET	Safety cap	Green
NC039159	10.0	16 x 100	Sodium Heparin	Glass	Safety cap	Green



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Plasma analysis

Lithium heparin and gel tubes

These tubes contain an inert gel barrier and spray-dried lithium heparin additive. The inert barrier separates the plasma from the blood cells during centrifugation, preventing contamination of the plasma. For example, in plasma certain analytes such as potassium, phosphorus and glucose should be separated from the cells within a few hours, otherwise the results will be significantly impacted.

The main advantages of gel tubes versus non-gel tubes are:

- Stable barrier between plasma and clotted blood during transportation and storage, therefore better analyte stability.
- Better sample quality.
- Optimisation of the work flow: short centrifugation time, sample processing and archiving in the primary tube.
- No requirement for secondary tubes, reducing the possibility of misidentification.



Lithium heparin and gel tubes

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039163	3.0	13 x 75	Lithium Heparin and Gel	PET	Safety cap	Light Green
NC039164	3.5	13 x 75	Lithium Heparin and Gel	PET	Safety cap	Light Green
NC039162	4.5	13 x 100	Lithium Heparin and Gel	PET	Safety cap	Light Green
NC039165	5.0	13 x 100	Lithium Heparin and Gel	PET	Safety cap	Light Green
NC039166	8.5	16 x 100	Lithium Heparin and Gel	PET	Safety cap	Light Green



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Haematology analysis

EDTA salts (ethylenediaminetetraacetic acid) are used to anticoagulate whole blood for haematological investigations, as the cellular components of the blood are particularly well preserved by EDTA. The anticoagulation is achieved by the EDTA forming complexes with metal ions such as calcium, therefore inhibiting the coagulation cascade. Anticoagulation with EDTA is irreversible.

K₂EDTA / K₃EDTA tubes

EDTA plastic (PET) and glass tubes are available with spray dried K₂EDTA and K₃EDTA.



K₂EDTA

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039173	2.0	13 x 75	K2 EDTA	PET	Safety cap	Lavender
NC039174	3.0	13 x 75	K2 EDTA	PET	Safety cap	Lavender
NC039172	4.0	13 x 75	K2 EDTA	PET	Safety cap	Lavender
NC039170	5.0	13 x 100	K2 EDTA	PET	Safety cap	Lavender
NC039169	6.0	13 x 100	K2 EDTA	PET	Safety cap	Lavender
NC039171	10.0	16 x 100	K2 EDTA	PET	Safety cap	Lavender

K₃EDTA

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039167	2.0	13 x 75	K3 EDTA	PET	Safety cap	Lavender
NC039168	3.0	13 x 75	K3 EDTA	PET	Safety cap	Lavender
NC039175	4.0	13 x 75	K3 EDTA	PET	Safety cap	Lavender



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

Glucose and lactate analysis

Glucose tubes are available in Sodium Fluoride w/ Potassium Oxalate or Sodium Fluoride w/ Sodium EDTA additive combinations.

Glucose values in unpreserved blood samples decrease quickly after collection as glucose is metabolised by the blood cells. The Fluoride additive stops the enzymatic activity of the glycolytic pathway.

Sodium Fluoride w/ Potassium Oxalate / Sodium Fluoride w/ K₂EDTA

One advantage of the Fluoride w/ EDTA tube over the Fluoride w/ Oxalate tube is that the marker HbA1c can be determined from the same tube, so no additional tube sample needs to be taken.



Sodium Fluoride w/ Potassium Oxalate

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039176	2.0	13 x 75	Sodium fluoride w/ Potassium oxalate	PET	Safety cap	Grey
NC039178	3.0	13 x 75	Sodium fluoride w/ Potassium oxalate	PET	Safety cap	Grey
NC039181	4.0	13 x 75	Sodium fluoride w/ Potassium oxalate	PET	Safety cap	Grey
NC039183	5.0	13 x 100	Sodium fluoride w/ Potassium oxalate	PET	Safety cap	Grey

Sodium Fluoride w/ K₂EDTA

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039177	2.0	13 x 75	Sodium fluoride w/ K2 EDTA	PET	Safety cap	Grey
NC039179	3.0	13 x 75	Sodium fluoride w/ K2 EDTA	PET	Safety cap	Grey
NC039180	4.0	13 x 75	Sodium fluoride w/ K2 EDTA	PET	Safety cap	Grey
NC039182	4.0	13 x 100	Sodium fluoride w/ K2 EDTA	PET	Safety cap	Grey
NC039184	5.0	13 x 100	Sodium fluoride w/ K2 EDTA	PET	Safety cap	Grey



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

ESR analysis

ESR tubes are used for Westergren sedimentation rate determination. The tubes contain buffered sodium citrate solution as an anticoagulant. Citrate concentration is either 0.109M (3.2%) or 0.129M (3.8%). Blood and sodium citrate volume ratio is one part citrate to four parts blood.

Traditional ESR tubes / Auto ESR tubes



Traditional ESR tubes 0.129M (3.8%)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039185	1.6	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety closure	Black
NC039186	2.4	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety closure	Black
NC039187	4.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety closure	Black
NC039188	5.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	PET	Safety closure	Black
NC039189	1.6	13 x 75	Sodium Citrate (0.129M, 3.8%)	Glass	Safety closure	Black
NC039190	2.4	13 x 75	Sodium Citrate (0.129M, 3.8%)	Glass	Safety closure	Black
NC039191	4.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	Glass	Safety closure	Black
NC039192	5.0	13 x 75	Sodium Citrate (0.129M, 3.8%)	Glass	Safety closure	Black

Auto ESR tubes 0.129M (3.8%)

NC039193	1.28	8 x 120	Sodium Citrate (0.129M, 3.8%)	Glass	Conventional	Black
NC039194	1.6	8 x 120	Sodium Citrate (0.129M, 3.8%)	Glass	Conventional	Black



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

ESR analysis

Traditional ESR tubes / Auto ESR tubes

Traditional ESR tubes 0.109M (3.2%)

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC039195	1.6	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety closure	Black
NC039196	2.4	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety closure	Black
NC039197	4.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety closure	Black
NC039198	5.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	PET	Safety closure	Black
NC039199	1.6	13 x 75	Sodium Citrate (0.109M, 3.2%)	Glass	Safety closure	Black
NC0391100	2.4	13 x 75	Sodium Citrate (0.109M, 3.2%)	Glass	Safety closure	Black
NC0391101	4.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	Glass	Safety closure	Black
NC0391102	5.0	13 x 75	Sodium Citrate (0.109M, 3.2%)	Glass	Safety closure	Black

Auto ESR tubes 0.109M (3.2%)

NC0391103	1.28	8 x 120	Sodium Citrate (0.109M, 3.2%)	Glass	Conventional	Black
NC0391104	1.6	8 x 120	Sodium Citrate (0.109M, 3.2%)	Glass	Conventional	Black



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Venous blood sampling

No-additive tubes

No-additive tubes are available in glass and plastic (PET), with your choice of paper, transparent, or UV printed labels. Draw volumes and sizes not shown below are available upon request.



No-additive tubes

Ensy REF	Volume (mL)	Size (mm)	Additive	Material	Closure type	Color
NC0391105	3.0	13 x 75	No Additive	PET	Safety cap	Red
NC0391106	4.0	13 x 75	No Additive	PET	Safety cap	Red
NC0391107	5.0	13 x 100	No Additive	PET	Safety cap	Red
NC0391108	6.0	13 x 100	No Additive	PET	Safety cap	Red
NC0391109	8.0	16 x 100	No Additive	PET	Safety cap	Red
NC0391110	9.0	16 x 100	No Additive	PET	Safety cap	Red
NC0391111	10.0	16 x 100	No Additive	PET	Safety cap	Red
NC0391112	3.0	13 x 75	No Additive	Glass	Safety cap	Red
NC0391113	4.0	13 x 75	No Additive	Glass	Safety cap	Red
NC0391114	5.0	13 x 100	No Additive	Glass	Safety cap	Red
NC0391115	6.0	13 x 100	No Additive	Glass	Safety cap	Red
NC0391116	8.0	16 x 100	No Additive	Glass	Safety cap	Red
NC0391117	9.0	16 x 100	No Additive	Glass	Safety cap	Red
NC0391118	10.0	16 x 100	No Additive	Glass	Safety cap	Red



AVAILABLE Glass tubes / Paper, transparent, and UV printed labels / Other draw volumes.
PACKING All tubes are supplied in racks of 100 / cases of 1200.

Capillary blood sampling

Capillary micro tubes are for collection, transport and processing of capillary blood from infants, children, geriatrics and emergency patients, whenever only the smallest amounts of blood are required.

Micro tubes are available with safety caps without capillary tubes, and with rubber closures with or without capillary tubes.

They're also available without additives or with the following additives, in various draw volumes:

- No additive
- Clot activator
- Clot activator and Gel
- Sodium heparin
- Lithium heparin
- K₂EDTA
- K₃EDTA

Capillary micro tubes with safety caps w/o capillary tubes




Capillary micro tubes with rubber caps w/ or w/o capillary tubes



Reach out to your Ensy™ representative for our extensive catalogue of medical suppliers, devices, and services.

Shannon McKay

Director of Regional Sales, Canada

 +1 (819) 271-9863

 Shannon.McKay@ensy.ca

 ensy.ca

Ensy Group inc.

364 A Sherbrooke St E, Montreal, Quebec H2X 1E6, Canada

Technical changes, changes to the product range, and printing errors are subject to change without notice.

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