

Your **Power** for Health



greiner bio-one



Preanalytics Catalogue



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Welcome to Greiner Bio-One Preanalytics

Your partner for innovative preanalytical
specimen collection systems and safety solutions

There are more than seven billion people on the earth today. As different as they all may be, they share one desire; the desire for a long, healthy and safe life.

We know that we can make a significant contribution towards safety and health in the area of medicine. We use our ideas and our competence for new product solutions. This is our contribution to increased efficiency and safety in preanalytics, which in turn has a positive effect on the reliability of analysis results.

As technological leader in the field of sample collection using products made out of plastic, Greiner Bio-One provides custom-made solutions conforming to the highest of quality standards. The **VACUETTE®** product line, manufactured by Greiner Bio-One and sold in more than 100 countries throughout the world, is used in hospitals, laboratories, doctors' offices and blood donor centres. We are a global player because medicine knows no bounds.

When dangerous infectious diseases occur due to changing living conditions, they make the headlines and the importance of our work is highlighted; since one of the most fundamental human needs has always been to maintain vitality and joy for life, it has always been our high priority.

Greiner Bio-One
Your Power for Health



VACUETTE® One step ahead

Reasons why you should not be satisfied with other solutions, when you can have the ORIGINAL:



Why is it important to use the best products at the best possible price performance ratio?

- Because your work is an important service to people entrusted to your care.
- Because correct analysis results are the basis for far-reaching decisions.
- Because only fully perfected products can guarantee safety and continuous high quality.
- Because more efficiency lessens your burden with routine procedures.



Provide safety

Due to technical advances in the mid-eighties, Greiner was able to be **the first company in the world** to successfully launch a blood collection system made out of virtually unbreakable PET plastic including a safety cap. Against the background of the worldwide increase in infectious diseases such as HIV and hepatitis, health protection of medical staff has become a theme rapidly increasing in importance. The **VACUETTE®** Blood Collection System is a trendsetter. Many components of the **VACUETTE®** system have often been copied unsuccessfully, never reaching our high standards of quality.



Increase efficiency

Streamlining of procedures on the ward and in the laboratory is a theme that continues to increase in importance. **VACUETTE®** products can help save time for routine activities. Whether with the aid of high capacity instruments for decapping blood collection tubes or pre-barcoded blood collection tubes, Greiner Bio-One is investing in new product solutions that can significantly increase efficiency.



Save costs

Greiner Bio-One is the specialist when it comes to realising customers' individual requirements. There are no long lead times, decisions are made quickly, and delays avoided when it comes to handling the orders. Greiner Bio-One Preanalytics is specialised in the manufacture of user-friendly, safe specimen collection systems. This focus means that the customer can be sure of getting products to the best possible cost-performance ratio.



Provide support

VACUETTE® products are the result of planned research and development in close co-operation with our partners and customers. Greiner Bio-One offers comprehensive additional services all around the product by providing expert support as well as technical support and training when a hospital or laboratory converts to the **VACUETTE®** Blood Collection System. A further specific focus of the company is the continuity of customer care, achieved by employing well-trained experienced sales representatives. Well-prepared support and education materials make the daily work with **VACUETTE®** products simple and safe.



Superior competence

Innovation is the basis of all progress. The company history of Greiner Bio-One Preanalytics began with a groundbreaking innovation and this is still the central element of all company activities. In order to guarantee that the level of quality remains constantly high, products must be technically perfect and subject to continual improvements. Expertise in production technology makes it possible to manufacture special thick-walled evacuated tubes, distinguished by increased shelf life.

The VACUETTE® System

Functionality for simple handling

The main advantage of a user-friendly evacuated specimen collection system with pre-measured vacuum is that a clearly defined quantity of blood, urine or saliva can be collected without further handling requirements.

VACUETTE® tubes can be changed quickly and hygienically, without any risk of coming into contact with specimen material. By using **VACUETTE®** Safety Products, a needlestick injury can be effectively prevented. All system components are ideally suited to one another.



Selected components of the VACUETTE® system:

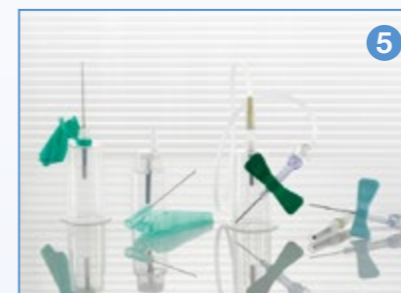
- 1 Sterile **VACUETTE®** Tube made from PET

Choose from:

- 2 Tube Holder (various versions available)
- 3 **VACUETTE®** Multiple Use Drawing Needle or VISIO PLUS Needle with flash chamber or Luer Adapter with Hypodermic Needle
- 4 Luer Adapter with SAFETY Blood Collection Set
- 5 **VACUETTE®** Safety Products

In addition:

- 6 Disposable Tourniquet
- 7 Sharps disposal container






The VACUETTE® Product Range

The comprehensive product range consists of evacuated blood collection tubes for blood, saliva and urine collection, accessories, safety products for prevention of needlestick injuries, both manual and automated ESR systems (erythrocyte sedimentation rate), sharps disposal containers, transport containers and automatic instruments for decapping tubes.

The individual tubes contain additives for the stabilisation of samples. The caps of the tubes are coloured in accordance with the international recommended colour code, so that different tube types can be recognised at first glance. The different coloured rings on the top of the cap provide additional optical recognition.

Colour and meaning of the stabilisation ring

	Standard Tube	Black Ring
	Tube with separation gel	Yellow Ring
	Low Draw Volume Tube	White Ring

More safety and efficiency with VACUETTE® closure systems

All tubes with 13mm diameter are available in two versions: with the PREMIUM Safety Twist Caps or with Non-Ridged pull caps. The **VACUETTE®** PREMIUM Tube with Safety Twist Cap is especially suited for manual opening, whilst the **VACUETTE®** Non-Ridged tubes with pull cap have been especially developed for use on automatic decapping instruments.

All tubes with 16mm diameter are only available with pull caps.



PREMIUM Tubes with Safety Twist Cap

Due to the optimal coordination between Safety Twist Cap and thread, the **VACUETTE®** PREMIUM tube can be opened with a simple twist movement, requiring minimal effort. The secure grip on the tube prevents the cap from becoming unfastened by itself. This is a particular advantage during transport.



Non-Ridged Tubes with pull cap

Without threads, the tubes are especially suitable for automatic decapping by a quick pull movement.

VACUETTE®

Blood Collection Tubes

The innovative **VACUETTE®** Blood Collection Tubes made out of virtually unbreakable PET plastic have set the standard on today's market. They provide improved safety and hygiene during specimen collection procedures with the advantage of being as clear as glass.

Most **VACUETTE®** Blood Collection Tubes contain chemical additives, which in combination with the pre-determined vacuum guarantee the correct mixing ratio for the blood sample. Reliable results and simple application make **VACUETTE®** the primary vessel for all current analysis instruments. All the tubes have the CE-mark and most are US FDA cleared.



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Coagulation sodium citrate / CTAD

Coagulation and CTAD tubes are used for examination of coagulation parameters. Coagulation tubes contain a buffered sodium citrate solution. It is available with a citrate concentration of 0.109 mol/l (3.2%) or 0.129 mol/l (3.8%). The mixing ratio is: 1 part citrate solution to 9 parts blood. In addition to buffered sodium citrate, CTAD tubes contain theophylline, adenosine and dipyridamole.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
9NC Coagulation sodium citrate 3.2% - PREMIUM (Safety Twist Cap)					
454320	1ml	light blue	white	13 x 75	Sodium citrate 3.2%, sandwich tube, low draw volume
454321	2ml	light blue	white	13 x 75	Sodium citrate 3.2%, sandwich tube, low draw volume
474321	2ml	light blue	white	13 x 75	Sodium citrate 3.2%, sandwich tube, low draw volume, transparent label
454325	3ml	light blue	black	13 x 75	Sodium citrate 3.2%, sandwich tube
454327	3.5ml	light blue	black	13 x 75	Sodium citrate 3.2%, sandwich tube
474327	3.5ml	light blue	black	13 x 75	Sodium citrate 3.2%, sandwich tube, transparent label
9NC Coagulation sodium citrate 3.2% - Non-ridged (pull cap)					
454322	2ml	light blue	white	13 x 75	Sodium citrate 3.2%, sandwich tube, low draw volume
454360	2ml	light blue	white	13 x 75	Sodium citrate 3.2%, sandwich tube, low draw volume, transparent label
454334	3ml	light blue	black	13 x 75	Sodium citrate 3.2%, sandwich tube
454332	3.5ml	light blue	black	13 x 75	Sodium citrate 3.2%, sandwich tube
9NC Coagulation sodium citrate 3.8% - PREMIUM (Safety Twist Cap)					
454381	2ml	light blue	white	13 x 75	Sodium citrate 3.8%, sandwich tube, low draw volume
454385	3ml	light blue	black	13 x 75	Sodium citrate 3.8%, sandwich tube
454387	3.5ml	light blue	black	13 x 75	Sodium citrate 3.8%, sandwich tube
9NC Coagulation sodium citrate 3.8% - Non-ridged (pull cap)					
454382	2ml	light blue	white	13 x 75	Sodium citrate 3.8%, sandwich tube, low draw volume
454393	3ml	light blue	black	13 x 75	Sodium citrate 3.8%, sandwich tube
454392	3.5ml	light blue	black	13 x 75	Sodium citrate 3.8%, sandwich tube
CTAD - PREMIUM (Safety Twist Cap)					
474065	2ml	light blue	yellow	13 x 75	CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label
474304	3ml	light blue	yellow	13 x 75	CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label
454064	3.5ml	light blue	yellow	13 x 75	CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube
474064	3.5ml	light blue	yellow	13 x 75	CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label
CTAD - Non-ridged (pull cap)					
454462	3.5ml	light blue	yellow	13 x 75	CTAD, 0.11 M sodium citrate with theophylline, adenosine and dipyridamole, sandwich tube, transparent label



Serum

The inner wall of the serum tube is specially coated with microscopic silica particles, which activate the coagulation process. Serum separator tubes contain a separation gel in the base of the tube; during centrifugation, this gel forms a stable barrier between the serum and the blood cells.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z Serum Clot Activator - PREMIUM (Safety Twist Cap)					
454098	1ml	red	white	13 x 75	Z Serum Clot Activator, low draw volume
454096	2ml	red	white	13 x 75	Z Serum Clot Activator, low draw volume
454095	3ml	red	black	13 x 75	Z Serum Clot Activator
454092	4ml	red	black	13 x 75	Z Serum Clot Activator
474092	4ml	red	black	13 x 75	Z Serum Clot Activator, transparent label
454027	4.5ml	red	black	13 x 75	Z Serum Clot Activator
474027	4.5ml	red	black	13 x 75	Z Serum Clot Activator, transparent label
456092	6ml	red	black	13 x 100	Z Serum Clot Activator
476092	6ml	red	black	13 x 100	Z Serum Clot Activator, transparent label
Z Serum Clot Activator - Non-ridged (pull cap)					
454236	2ml	red	white	13 x 75	Z Serum Clot Activator, low draw volume
454433	4ml	red	black	13 x 75	Z Serum Clot Activator, transparent label
454204	4ml	red	black	13 x 75	Z Serum Clot Activator
454298	4.5ml	red	black	13 x 75	Z Serum Clot Activator
456089	6ml	red	black	13 x 100	Z Serum Clot Activator
456048	6ml	red	black	13 x 100	Z Serum Clot Activator, transparent label
455092	9ml	red	black	16 x 100	Z Serum Clot Activator
Z Serum Sep Clot Activator - PREMIUM (Safety Twist Cap)					
454028	2.5ml	red	yellow	13 x 75	Z Serum Sep Clot Activator, low draw volume
454071	4ml	red	yellow	13 x 75	Z Serum Sep Clot Activator
474071	4ml	red	yellow	13 x 75	Z Serum Sep Clot Activator, transparent label
454214	4ml	gold	gold	13 x 75	Z Serum Sep Clot Activator
474214	4ml	gold	gold	13 x 75	Z Serum Sep Clot Activator, transparent label
456071	5ml	red	yellow	13 x 100	Z Serum Sep Clot Activator
476071	5ml	red	yellow	13 x 100	Z Serum Sep Clot Activator, transparent label
456010	5ml	gold	gold	13 x 100	Z Serum Sep Clot Activator
476010	5ml	gold	gold	13 x 100	Z Serum Sep Clot Activator, transparent label

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z Serum Sep Clot Activator - Non-ridged (pull cap)					
454243	2.5ml	red	white	13 x 75	Z Serum Sep Clot Activator, low draw volume
454225	3.5ml	red	yellow	13 x 75	Z Serum Sep Clot Activator
454067	4ml	red	yellow	13 x 75	Z Serum Sep Clot Activator
454228	4ml	gold	gold	13 x 75	Z Serum Sep Clot Activator, black label
454078	4ml	red	yellow	13 x 75	Z Serum Sep Clot Activator, transparent label
456073	5ml	red	yellow	13 x 100	Z Serum Sep Clot Activator
456069	5ml	red	yellow	13 x 100	Z Serum Sep Clot Activator, transparent label
456018	5ml	gold	gold	13 x 100	Z Serum Sep Clot Activator, black label
456234	5ml	gold	gold	13 x 100	Z Serum Sep Clot Activator, transparent label
455099	7ml	red	yellow	16 x 100	Z Serum Sep Clot Activator, double gel
455071	8ml	red	yellow	16 x 100	Z Serum Sep Clot Activator
455010	9ml	red	yellow	16 x 100	Z Serum Sep Clot Activator
455059	9ml	red	yellow	16 x 100	Z Serum Sep Clot Activator, transparent label
455034	9ml	gold	gold	16 x 100	Z Serum Sep Clot Activator



Heparin

The inner wall of the tube is coated with spray-dried lithium, sodium, or ammonium heparin. These additives are anti-coagulants, which activate anti-thrombins, thus blocking the coagulation cascade of the blood specimen. LH Lithium Heparin Tubes are also available with a separator gel.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
LH Lithium Heparin - PREMIUM (Safety Twist Cap)					
454089	2ml	green	white	13 x 75	LH Lithium Heparin, low draw volume
454082	3ml	green	black	13 x 75	LH Lithium Heparin
454084	4ml	green	black	13 x 75	LH Lithium Heparin
474084	4ml	green	black	13 x 75	LH Lithium Heparin, transparent label
454049	4.5ml	green	black	13 x 75	LH Lithium Heparin
456084	6ml	green	black	13 x 100	LH Lithium Heparin
476084	6ml	green	black	13 x 100	LH Lithium Heparin, transparent label
LH Lithium Heparin - Non-ridged (pull cap)					
454237	2ml	green	white	13 x 75	LH Lithium Heparin, low draw volume
454244	3ml	green	black	13 x 75	LH Lithium Heparin
454029	4ml	green	black	13 x 75	LH Lithium Heparin
454056	4ml	green	black	13 x 75	LH Lithium Heparin, transparent label
456088	6ml	green	black	13 x 100	LH Lithium Heparin
455084	9ml	green	black	16 x 100	LH Lithium Heparin

LH Lithium Heparin Sep - PREMIUM (Safety Twist Cap)

454046	2.5ml	green	yellow	13 x 75	LH Lithium Heparin Sep, low draw volume
454083	4ml	green	yellow	13 x 75	LH Lithium Heparin Sep
474083	4ml	green	yellow	13 x 75	LH Lithium Heparin Sep, transparent label
456083	5ml	green	yellow	13 x 100	LH Lithium Heparin Sep
476083	5ml	green	yellow	13 x 100	LH Lithium Heparin Sep, transparent label

LH Lithium Heparin Sep - Non-ridged (pull cap)

454247	3ml	green	yellow	13 x 75	LH Lithium Heparin Sep
454008	4ml	green	yellow	13 x 75	LH Lithium Heparin Sep
454285	4ml	green	yellow	13 x 75	LH Lithium Heparin Sep, transparent label
456087	5ml	green	yellow	13 x 100	LH Lithium Heparin Sep
456216	5ml	green	yellow	13 x 100	LH Lithium Heparin Sep, transparent label
455083	8ml	green	yellow	16 x 100	LH Lithium Heparin Sep

NH Sodium Heparin - PREMIUM (Safety Twist Cap)

454051	4ml	green	green	13 x 75	NH Sodium Heparin
456051	6ml	green	green	13 x 100	NH Sodium Heparin

NH Sodium Heparin - Non-ridged (pull cap)

454030	4ml	green	green	13 x 75	NH Sodium Heparin
456028	6ml	green	green	13 x 100	NH Sodium Heparin
455051	9ml	green	green	16 x 100	NH Sodium Heparin

AH Ammonium Heparin - Non-ridged (pull cap)

455031	9ml	green	red	16 x 100	AH Ammonium Heparin
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K2E K2EDTA Sep

K2EDTA Sep Tubes are for the examination of EDTA plasma for molecular diagnostics and for viral load determinations.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
K2E K2EDTA Sep - PREMIUM (Safety Twist Cap)					
454235	4ml	lavender	yellow	13 x 75	K2E K2EDTA Sep
456011	5ml	lavender	yellow	13 x 100	K2E K2EDTA Sep
456211	5ml	white	yellow	13 x 100	K2E K2EDTA Sep
K2E K2EDTA Sep - Non-ridged (pull cap)					
454059	4ml	lavender	yellow	13 x 75	K2E K2EDTA Sep
456058	5ml	white	yellow	13 x 100	K2E K2EDTA Sep
456282	5ml	lavender	yellow	13 x 100	K2E K2EDTA Sep
456205	5ml	white	yellow	13 x 100	K2E K2EDTA Sep, transparent label
455021	8ml	white	yellow	16 x 100	K2E K2EDTA Sep
455040	8ml	lavender	yellow	16 x 100	K2E K2EDTA Sep



EDTA

EDTA tubes are for the examination of whole blood in haematology. Are offered as either K2EDTA or K3EDTA tubes. EDTA binds the calcium ions and therefore blocks the coagulation cascade.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
K2E K2EDTA - PREMIUM (Safety Twist Cap)					
454024	2ml	lavender	white	13 x 75	K2E K2EDTA, low draw volume
454020	3ml	lavender	black	13 x 75	K2E K2EDTA
454023	4ml	lavender	black	13 x 75	K2E K2EDTA
456023	6ml	lavender	black	13 x 100	K2E K2EDTA
K2E K2EDTA - Non-ridged (pull cap)					
454047	2ml	lavender	white	13 x 75	K2E K2EDTA, low draw volume
454409	2ml	lavender	white	13 x 75	K2E K2EDTA, low draw volume, transparent label
454246	3ml	lavender	black	13 x 75	K2E K2EDTA
454411	3ml	lavender	black	13 x 75	K2E K2EDTA, transparent label
454209	4ml	lavender	black	13 x 75	K2E K2EDTA
454410	4ml	lavender	black	13 x 75	K2E K2EDTA, transparent label
456043	6ml	lavender	black	13 x 100	K2E K2EDTA
456243	6ml	lavender	black	13 x 100	K2E K2EDTA, transparent label
455045	9ml	lavender	black	16 x 100	K2E K2EDTA
K3E K3EDTA - PREMIUM (Safety Twist Cap)					
454034	1ml	lavender	white	13 x 75	K3E K3EDTA, low draw volume
454087	2ml	lavender	white	13 x 75	K3E K3EDTA, low draw volume
474087	2ml	lavender	white	13 x 75	K3E K3EDTA, low draw volume, transparent label
454086	3ml	lavender	black	13 x 75	K3E K3EDTA
474086	3ml	lavender	black	13 x 75	K3E K3EDTA, transparent label
454036	4ml	lavender	black	13 x 75	K3E K3EDTA
474036	4ml	lavender	black	13 x 75	K3E K3EDTA, transparent label
454039	4.5ml	lavender	black	13 x 75	K3E K3EDTA
456034	5ml	lavender	black	13 x 100	K3E K3EDTA
456036	6ml	lavender	black	13 x 100	K3E K3EDTA
K3E K3EDTA - Non-ridged (pull cap)					
454222	2ml	lavender	white	13 x 75	K3E K3EDTA, low draw volume
454217	3ml	lavender	black	13 x 75	K3E K3EDTA
454287	3ml	lavender	black	13 x 75	K3E K3EDTA, transparent label
454021	4ml	lavender	black	13 x 75	K3E K3EDTA
454425	4ml	lavender	black	13 x 75	K3E K3EDTA, transparent label
454223	4.5ml	lavender	black	13 x 75	K3E K3EDTA
456038	6ml	lavender	black	13 x 100	K3E K3EDTA
456053	6ml	lavender	black	13 x 100	K3E K3EDTA, transparent label
455036	9ml	lavender	black	16 x 100	K3E K3EDTA



No Additive

These tubes do not contain any additives. They can, for example, be used for CSF determinations or puncture specimens.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z No Additive - PREMIUM (Safety Twist Cap)					
454088	2ml	white	white	13 x 75	Z No Additive, low draw volume
454001	4ml	white	black	13 x 75	Z No Additive
456001	6ml	white	black	13 x 100	Z No Additive
Z No Additive - Non-ridged (pull cap)					
454241	3ml	white	black	13 x 75	Z No Additive
454045	3.5ml	white	black	13 x 75	Z No Additive
456085	6ml	white	black	13 x 100	Z No Additive
455001	9ml	white	black	16 x 100	Z No Additive



Discard Tubes

The **VACUETTE®** Discard Tube is not for analysis. The tube interior contains no additive. When using a (safety) blood collection set to draw a coagulation sample, a discard tube should be taken first. This will prime the line to reduce any dead-space and ensure that the coagulation tube will not be underfilled.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z Discard Tube - Non-ridged (pull cap)					
456202	5ml	black	red	13 x 100	Z Discard Tube
456217	5ml	white	black	13 x 100	Z Discard Tube



Glucose

These tubes are ideal for glucose determinations. The **VACUETTE®** glucose tubes contain sodium fluoride as stabiliser with a choice of potassium oxalate, K3EDTA or sodium heparin as anticoagulant. The **VACUETTE®** FC Mix tube enables exact measurement of the *in-vivo* blood sugar level, which makes it particularly suitable for the diagnosis of Diabetes mellitus.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
FX Sodium Fluoride / Potassium Oxalate - PREMIUM (Safety Twist Cap)					
454061	2ml	grey	white	13 x 75	FX Sodium Fluoride / Potassium Oxalate, low draw volume
454094	3ml	grey	black	13 x 75	FX Sodium Fluoride / Potassium Oxalate
454062	4ml	grey	black	13 x 75	FX Sodium Fluoride / Potassium Oxalate
456062	6ml	grey	black	13 x 100	FX Sodium Fluoride / Potassium Oxalate
FX Sodium Fluoride / Potassium Oxalate - Non-ridged (pull cap)					
454238	2ml	grey	white	13 x 75	FX Sodium Fluoride / Potassium Oxalate, low draw volume
454297	4ml	grey	black	13 x 75	FX Sodium Fluoride / Potassium Oxalate
454438	4ml	grey	black	13 x 75	FX Sodium Fluoride / Potassium Oxalate, transp. label
FE Sodium Fluoride / K3EDTA - PREMIUM (Safety Twist Cap)					
454085	2ml	grey	white	13 x 75	FE Sodium Fluoride / K3EDTA, low draw volume
454091	4ml	grey	black	13 x 75	FE Sodium Fluoride / K3EDTA
FE Sodium Fluoride / K3EDTA - Non-ridged (pull cap)					
454221	2ml	grey	white	13 x 75	FE Sodium Fluoride / K3EDTA, low draw volume
454033	4ml	grey	black	13 x 75	FE Sodium Fluoride / K3EDTA
FH Sodium Fluoride / Sodium Heparin - PREMIUM (Safety Twist Cap)					
454218	2ml	grey	white	13 x 75	FH Sodium Fluoride / Sodium Heparin, low draw volume
FC Mix - Non-ridged (pull cap)					
454510	2ml	pink	white	13 x 75	FC Mix, transparent label
454511	2ml	grey	white	13 x 75	FC Mix, transparent label
454513	3ml	pink	black	13 x 75	FC Mix, transparent label
454514	3ml	grey	black	13 x 75	FC Mix, transparent label



Blood Grouping

Blood grouping tubes are available in two formulations, ACD-A, ACD-B or with a CPDA solution. Blood grouping tubes are for blood grouping determinations and also for cell preservation.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
ACD-A - PREMIUM (Safety Twist Cap)					
456055	6ml	yellow	black	13 x 100	ACD-A
ACD-A - Non-ridged (pull cap)					
455055	9ml	yellow	black	16 x 100	ACD-A
ACD-B - PREMIUM (Safety Twist Cap)					
456094	6ml	yellow	black	13 x 100	ACD-B
ACD-B - Non-ridged (pull cap)					
456204	6ml	yellow	black	13 x 100	ACD-B
455094	9ml	yellow	black	16 x 100	ACD-B
CPDA - PREMIUM (Safety Twist Cap)					
456056	6ml	yellow	black	13 x 100	CPDA
CPDA - Non-ridged (pull cap)					
454280	4ml	yellow	black	13 x 75	CPDA
456057	6ml	yellow	black	13 x 100	CPDA
455056	9ml	yellow	black	16 x 100	CPDA



Trace Elements

Designed to test trace elements.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
NH Trace Elements Sodium Heparin - PREMIUM (Safety Twist Cap)					
456080	6ml	royal blue	black	13 x 100	NH Trace Elements Sodium Heparin
NH Trace Elements Sodium Heparin - Non-ridged (pull cap)					
456275	6ml	royal blue	black	13 x 100	NH Trace Elements Sodium Heparin



ESR

The erythrocyte sedimentation rate (ESR) can be used as a nonspecific search technique for inflammatory reactions and observing their development. **VACUETTE®** ESR tubes are used for determination of the ESR.

PET tubes are packed 50 pcs per rack and 1200 pcs per carton
PP tubes are packed 50 pcs per rack and 800 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
4NC ESR sodium citrate 3.2%, PET - PREMIUM (Safety Twist Cap)					
454284	1.5ml	black	black	13 x 75	4NC ESR sodium citrate, PET
454073	2ml	black	black	13 x 75	4NC ESR sodium citrate, PET
4NC ESR sodium citrate 3.2%, PP					
729073	1.5ml	black	---	9 x 120	4NC ESR sodium citrate, PP, closed system
729070	2.75ml	black	---	9 x 120	4NC ESR sodium citrate, PP, closed system

* Information on ESR readers and accessories can be found from page 48 onwards.



Homocysteine

Homocysteine occurs in cell metabolism as an intermediary product during the catabolisation of methionine. A higher concentration of homocysteine in the blood can increase the risk for cardio and cerebrovascular blockages. Determination of the homocysteine concentration in plasma is therefore carried out for primary prevention - and sometimes for secondary prevention - of heart attacks and strokes.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Homocysteine - PREMIUM (Safety Twist Cap)					
454421	2ml	white	red	13 x 75	Homocysteine Detection Tube, sandwich tube



Crossmatch

Crossmatch Tubes are available in two versions. The Z Crossmatch Serum Clot Activator Tube contains a clotting activator and is suitable for crossmatch tests when serum is required for testing material. The K3E Crossmatch K3EDTA Tube is suitable when the testing material required is blood cells.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z Crossmatch Serum Clot Activator - Non-ridged (pull cap)					
456097	6ml	pink	black	13 x 100	Z Crossmatch Serum Clot Activator
455093	9ml	pink	black	16 x 100	Z Crossmatch Serum Clot Activator
K3E Crossmatch K3EDTA - PREMIUM (Safety Twist Cap)					
456093	6ml	pink	black	13 x 100	K3E Crossmatch K3EDTA
K3E Crossmatch K3EDTA - Non-ridged (pull cap)					
456052	6ml	pink	black	13 x 100	K3E Crossmatch K3EDTA



Low Draw Volume Tubes

VACUETTE® Low Draw Volume Tubes are a range of tubes with lower draw volumes, which are ideal for thin veins and geriatric patients.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Low Draw Volume, Z No Additive - PREMIUM (Safety Twist Cap)					
454088	2ml	white	white	13 x 75	Z No Additive
Low Draw Volume, 9NC Coagulation sodium citrate - PREMIUM (Safety Twist Cap)					
454320	1ml	light blue	white	13 x 75	9NC 3.2%, sandwich tube
454321	2ml	light blue	white	13 x 75	9NC 3.2%, sandwich tube
474321	2ml	light blue	white	13 x 75	9NC 3.2%, sandwich tube, transparent label
454381	2ml	light blue	white	13 x 75	9NC 3.8%, sandwich tube
Low Draw Volume, 9NC Coagulation sodium citrate - Non-ridged (pull cap)					
454322	2ml	light blue	white	13 x 75	9NC 3.2%, sandwich tube
454360	2ml	light blue	white	13 x 75	9NC 3.2%, sandwich tube, transparent label
454382	2ml	light blue	white	13 x 75	9NC 3.8%, sandwich tube
Low Draw Volume, Z Serum Clot Activator - PREMIUM (Safety Twist Cap)					
454098	1ml	red	white	13 x 75	Z Serum Clot Activator
454096	2ml	red	white	13 x 75	Z Serum Clot Activator
Low Draw Volume, Z Serum Clot Activator - Non-ridged (pull cap)					
454236	2ml	red	white	13 x 75	Z Serum Clot Activator
Low Draw Volume, LH Lithium Heparin - PREMIUM (Safety Twist Cap)					
454081	1ml	green	white	13 x 75	LH Lithium Heparin
454089	2ml	green	white	13 x 75	LH Lithium Heparin
Low Draw Volume, LH Lithium Heparin - Non-ridged (pull cap)					
454237	2ml	green	white	13 x 75	LH Lithium Heparin
Low Draw Volume, K2E K2EDTA - PREMIUM (Safety Twist Cap)					
454024	2ml	lavender	white	13 x 75	K2E K2EDTA
Low Draw Volume, K2E K2EDTA - Non-ridged (pull cap)					
454052	1ml	lavender	white	13 x 75	K2E K2EDTA
454047	2ml	lavender	white	13 x 75	K2E K2EDTA
454409	2ml	lavender	white	13 x 75	K2E K2EDTA, transparent label
Low Draw Volume, K3E K3EDTA - PREMIUM (Safety Twist Cap)					
454034	1ml	lavender	white	13 x 75	K3E K3EDTA
454087	2ml	lavender	white	13 x 75	K3E K3EDTA
474087	2ml	lavender	white	13 x 75	K3E K3EDTA, transparent label
Low Draw Volume, K3E K3EDTA - Non-ridged (pull cap)					
454222	2ml	lavender	white	13 x 75	K3E K3EDTA
Low Draw Volume, Glucose - PREMIUM (Safety Twist Cap)					
454061	2ml	grey	white	13 x 75	FX Sodium Fluoride / Potassium Oxalate
454085	2ml	grey	white	13 x 75	FE Sodium Fluoride / K3EDTA
454218	2ml	grey	white	13 x 75	FH Sodium Fluoride / Sodium Heparin
Low Draw Volume, Glucose - Non-ridged (pull cap)					
454238	2ml	grey	white	13 x 75	FX Sodium Fluoride / Potassium Oxalate
454221	2ml	grey	white	13 x 75	FE Sodium Fluoride / K3EDTA



Accessories for Low Draw Volume Tubes

VACUETTE® Accessories for Low Draw Volume Tubes are ideal for thin veins and geriatric patients.

Item No.	Description	Size	Packaging	
			Inner	Outer
450071	VACUETTE® Multiple Use Drawing Needle black (sterile)	25 x 0.7mm 22G x 1"	100 pcs.	2000 pcs.
450075	VACUETTE® Multiple Use Drawing Needle black (sterile)	38 x 0.7mm 22G x 1 1/2"	100 pcs.	2000 pcs.
450043	VACUETTE® VISIO PLUS Needle black (sterile)	25 x 0.7mm 22G x 1"	100 pcs.	2000 pcs.
450041	VACUETTE® VISIO PLUS Needle black (sterile)	38 x 0.7mm 22G x 1 1/2"	100 pcs.	2000 pcs.
411256	VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex	22G x 1 1/2" 0.7 x 38mm	100 pcs.	800 pcs.
411259	VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex	23G x 1" 0.6 x 25mm	100 pcs.	800 pcs.
411258	VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex	25G x 1" 0.5 x 25mm	100 pcs.	800 pcs.
450059	Blood Collection / Infusion Set (sterile)	21G x 3/4" tubing length: 10cm	50 pcs.	1000 pcs.
450155	Blood Collection / Infusion Set (sterile)	23G x 3/4" tubing length: 19cm	50 pcs.	1000 pcs.
450064	Blood Collection Set + Luer Adapter	21G x 3/4" tubing length: 10cm	50 pcs.	1000 pcs.
450089	Blood Collection Set + Luer Adapter (sterile)	23G x 3/4" tubing length: 19cm	50 pcs.	1000 pcs.
450192	SAFETY Blood Collection / Infusion Set (sterile)	23G x 3/4" tubing length: 30cm	50 pcs.	1000 pcs.
450090	SAFETY Blood Collection / Infusion Set (sterile)	25G x 3/4" tubing length: 19cm	50 pcs.	1000 pcs.
450084	SAFETY Blood Collection Set + Luer Adapter (sterile)	23G x 3/4" tubing length: 10cm	50 pcs.	1000 pcs.
450099	SAFETY Blood Collection Set + Luer Adapter (sterile)	25G x 3/4" tubing length: 30cm	50 pcs.	1000 pcs.
450086	SAFETY Blood Collection Set + Holder (sterile)	23G x 3/4" tubing length: 19cm	24 pcs.	240 pcs.
450161	SAFETY Blood Collection Set + Holder (sterile)	23G x 3/4" tubing length: 30cm	24 pcs.	240 pcs.
450080	SAFETY Blood Collection Set + Holder (sterile)	25G x 3/4" tubing length: 30cm	24 pcs.	240 pcs.
450373	Blood Collection Set + Holder (sterile)	23G x 3/4" tubing length: 19cm	24 pcs.	240 pcs.
450375	Blood Collection Set + Holder (sterile)	25G x 3/4" tubing length: 19cm	24 pcs.	240 pcs.
840051	VACUETTE® Tourniquet for children, latex free		1 pc.	500 pcs.
840053	VACUETTE® Disposable Tourniquet, latex free		25 pcs.	2500 pcs.

Details on the Capillary Blood Collection System can be found from page 44 onwards.

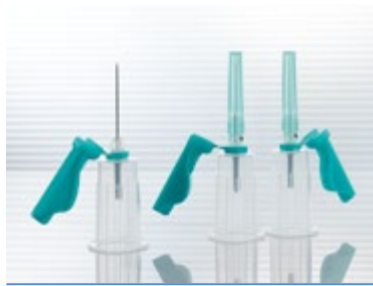
VACUETTE® Safety Products

In the healthcare sector sharps injuries account for most work-related transmissions of infectious diseases, whereby needlestick injuries present by far the greatest risk. More than 50% of all registered cases concern nursing staff, followed by doctors and laboratory staff.

However, needlestick injuries need not be an occupational risk. By using **VACUETTE®** Safety Products, this danger can be virtually eliminated. Furthermore, by working with **VACUETTE®** Safety products you are compliant with criteria given in the EU Directive (EU 2010/32).

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VACUETTE® QUICKSHIELD

The **VACUETTE®** QUICKSHIELD Safety Tube Holder with rotating safety shield is especially suitable for routine blood collection. The tube holder can be used with either **VACUETTE®** Multiple Use Drawing Needles or **VACUETTE®** VISIO PLUS Needles.

The tube holder should be used exclusively with **VACUETTE®** needles.

Item No.	Description	Size	Packaging	
			Inner	Outer
VACUETTE® QUICKSHIELD Safety Tube Holder				
450230	VACUETTE® QUICKSHIELD Safety Tube Holder		50 pcs.	1000 pcs.
VACUETTE® QUICKSHIELD Complete (sterile)				
450237	VACUETTE® QUICKSHIELD Complete	21G x 1 1/2" 0.8 x 38mm	30 pcs.	300 pcs.
450238	VACUETTE® QUICKSHIELD Complete	21G x 1" 0.8 x 25mm	30 pcs.	300 pcs.
450206	VACUETTE® QUICKSHIELD Complete	22G x 1 1/2" 0.7 x 38mm	30 pcs.	300 pcs.
450234	VACUETTE® QUICKSHIELD Complete	22G x 1" 0.7 x 25mm	30 pcs.	300 pcs.
VACUETTE® QUICKSHIELD Complete PLUS (sterile)				
450235	VACUETTE® QUICKSHIELD Complete PLUS	21G x 1" 0.8 x 25mm	30 pcs.	300 pcs.
450239	VACUETTE® QUICKSHIELD Complete PLUS	21G x 1 1/2" 0.8 x 38mm	30 pcs.	300 pcs.
450226	VACUETTE® QUICKSHIELD Complete PLUS	22G x 1" 0.7 x 25mm	30 pcs.	300 pcs.
450228	VACUETTE® QUICKSHIELD Complete PLUS	22G x 1 1/2" 0.7 x 38mm	30 pcs.	300 pcs.



VACUETTE® CLIX Safety Hypodermic Needle

The **VACUETTE®** CLIX Safety Hypodermic Needle can be applied for both venous blood collection as well as injection purposes. The product has a safety mechanism which is an integral part of the device.

The product is available in a range of additional needle lengths and gauges. Please contact us for more details.

Item No.	Description	Size	Packaging	
			Inner	Outer
VACUETTE® CLIX Safety Hypodermic Needle				
411252	VACUETTE® CLIX Safety Hypodermic Needle yellow, sterile, not made with natural rubber latex	20G x 1 1/2" 0.9 x 38mm	100 pcs.	800 pcs.
411253	VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex	21G x 1 1/2" 0.8 x 38mm	100 pcs.	800 pcs.
411254	VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex	21G x 1" 0.8 x 25mm	100 pcs.	800 pcs.
411256	VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex	22G x 1 1/2" 0.7 x 38mm	100 pcs.	800 pcs.
411259	VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex	23G x 1" 0.6 x 25mm	100 pcs.	800 pcs.
411258	VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex	25G x 1" 0.5 x 25mm	100 pcs.	800 pcs.
VACUETTE® CLIX Safety Hypodermic Needle (60 working days lead time)				
411250	VACUETTE® CLIX Safety Hypodermic Needle cream, sterile, not made with natural rubber latex	19G x 1 1/2" 1.1 x 38 mm	100 pcs.	800 pcs.
411251	VACUETTE® CLIX Safety Hypodermic Needle cream, sterile, not made with natural rubber latex	19G x 1" 1.1 x 25 mm	100 pcs.	800 pcs.
411263	VACUETTE® CLIX Safety Hypodermic Needle green, sterile, not made with natural rubber latex	21G x 2" 0.8 x 50 mm	100 pcs.	800 pcs.
411255	VACUETTE® CLIX Safety Hypodermic Needle black, sterile, not made with natural rubber latex	22G x 1 1/4" 0.7 x 30 mm	100 pcs.	800 pcs.
411257	VACUETTE® CLIX Safety Hypodermic Needle blue, sterile, not made with natural rubber latex	23G x 1 1/4" 0.6 x 30 mm	100 pcs.	800 pcs.
411262	VACUETTE® CLIX Safety Hypodermic Needle lavender, sterile, not made with natural rubber latex	24G x 1" 0.55 x 25 mm	100 pcs.	800 pcs.
411260	VACUETTE® CLIX Safety Hypodermic Needle orange, sterile, not made with natural rubber latex	25G x 1/2" 0.5 x 12.5 mm	100 pcs.	800 pcs.
411261	VACUETTE® CLIX Safety Hypodermic Needle grey, sterile, not made with natural rubber latex	27G x 1/2" 0.4 x 12.5 mm	100 pcs.	800 pcs.
Further product types available on request.				



SAFETY Blood Collection Sets

Safety Blood Collection Sets are available in four versions; either with or without Luer Adapter, or with Luer Adapter and Holder or with Blood Culture Holder.

Item No.	Description	Size	Packaging		
			Inner	Outer	
SAFETY Blood Collection/Infusion Sets (sterile)					
450091	SAFETY Blood Collection/Infusion Set	21G x 3/4"	tubing length: 19cm	50 pcs.	1000 pcs.
450191	SAFETY Blood Collection/Infusion Set	21G x 3/4"	tubing length: 30cm	50 pcs.	1000 pcs.
450092	SAFETY Blood Collection/Infusion Set	23G x 3/4"	tubing length: 19cm	50 pcs.	1000 pcs.
450192	SAFETY Blood Collection/Infusion Set	23G x 3/4"	tubing length: 30cm	50 pcs.	1000 pcs.
450090	SAFETY Blood Collection/Infusion Set	25G x 3/4"	tubing length: 19cm	50 pcs.	1000 pcs.
SAFETY Blood Collection Sets + Luer Adapters (sterile)					
450083	SAFETY Blood Collection Set + Luer Adapter	21G x 3/4"	tubing length: 10cm	50 pcs.	1000 pcs.
450081	SAFETY Blood Collection Set + Luer Adapter	21G x 3/4"	tubing length: 19cm	50 pcs.	1000 pcs.
450095	SAFETY Blood Collection Set + Luer Adapter	21G x 3/4"	tubing length: 30cm	50 pcs.	1000 pcs.
450084	SAFETY Blood Collection Set + Luer Adapter	23G x 3/4"	tubing length: 10cm	50 pcs.	1000 pcs.
450082	SAFETY Blood Collection Set + Luer Adapter	23G x 3/4"	tubing length: 19cm	50 pcs.	1000 pcs.
450096	SAFETY Blood Collection Set + Luer Adapter	23G x 3/4"	tubing length: 30cm	50 pcs.	1000 pcs.
450099	SAFETY Blood Collection Set + Luer Adapter	25G x 3/4"	tubing length: 30cm	50 pcs.	1000 pcs.

Item No.	Description	Size	Packaging		
			Inner	Outer	
SAFETY Blood Collection Sets + Holders (sterile)					
450087	SAFETY Blood Collection Set + Holder	21G x 3/4"	tubing length: 10cm	24 pcs.	240 pcs.
450085	SAFETY Blood Collection Set + Holder	21G x 3/4"	tubing length: 19cm	24 pcs.	240 pcs.
450160	SAFETY Blood Collection Set + Holder	21G x 3/4"	tubing length: 30cm	24 pcs.	240 pcs.
450088	SAFETY Blood Collection Set + Holder	23G x 3/4"	tubing length: 10cm	24 pcs.	240 pcs.
450086	SAFETY Blood Collection Set + Holder	23G x 3/4"	tubing length: 19cm	24 pcs.	240 pcs.
450161	SAFETY Blood Collection Set + Holder	23G x 3/4"	tubing length: 30cm	24 pcs.	240 pcs.
450080	SAFETY Blood Collection Set + Holder	25G x 3/4"	tubing length: 30cm	24 pcs.	240 pcs.
SAFETY Blood Collection Sets + Blood Culture Holders (sterile)					
450182	SAFETY Blood Collection Set + Blood Culture Holder	21G x 3/4"	tubing length: 19cm	24 pcs.	240 pcs.
450183	SAFETY Blood Collection Set + Blood Culture Holder	23G x 3/4"	tubing length: 19cm	24 pcs.	240 pcs.
450184	SAFETY Blood Collection Set + Blood Culture Holder	21G x 3/4"	tubing length: 30cm	24 pcs.	240 pcs.
450185	SAFETY Blood Collection Set + Blood Culture Holder	23G x 3/4"	tubing length: 30cm	24 pcs.	240 pcs.

VACUETTE® Blood Collection Accessories / Medical Devices

Simple handling and safety are of the highest importance during daily routine procedures. The requirements of the user are therefore the prime consideration during development of **VACUETTE®** Blood Collection Accessories. This led to development of products like the **HOLDEX®** Single-Use Holder, which was designed especially for patients with difficult vein conditions. The Luer nozzle of the **HOLDEX®** Single-Use Holder, positioned off-centre, guarantees the optimal angle for venipuncture.

Another product is the **VACUETTE®** Multiple Use Drawing Needle. The smoothly ground tip and design ensure gentle penetration of the patient's vein. More details on **VACUETTE®** Blood Collection Accessories can be found on the following pages.

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Tube Holders

Tube Holders should be used exclusively with **VACUETTE®** Multiple Use Drawing Needles or **VACUETTE®** VISIO PLUS Needles, as both components are designed for optimal compatibility with one another. The use of these products with needles from other manufacturers is the responsibility of the user.

Item No.	Description	Packaging		
		Inner	2nd Inner	Outer
Standard Tube Holders				
450201	Standard Tube Holder (short version)	10 pcs.	---	1200 pcs.
450208	Standard Tube Holder (short version)	200 pcs.	---	2000 pcs.
450209	Standard Tube Holder (short version)	100 pcs.	---	2000 pcs.
Speedy Quick Release Holder				
450212	Speedy Quick Release Holder	10 pcs.	---	1000 pcs.
HOLDEX® Single-Use Holders (sterile)				
450216	Plastic Cannula HOLDEX®, single-packed	1 pc.	---	1000 pcs.
450241	HOLDEX® Single-Use Holder PP, single-packed, not made with natural rubber latex	1 pc.	100 pcs.	800 pcs.
450263	HOLDEX® Single-Use Holder PP, single-packed	1 pc.	100 pcs.	800 pcs.
450263DE	HOLDEX® Single-Use Holder PP, single-packed, with carton lid	1 pc.	100 pcs.	800 pcs.
Blood Transfer Unit (sterile)				
450225	Blood Transfer Unit PP, single-packed	1 pc.	100 pcs.	800 pcs.
Blood Culture Holder				
450181	Blood Culture Holder, non sterile	40 pcs.	---	320 pcs.
450197	Blood Culture Holder + Luer Adapter 20G single-packed, sterile, not made with natural rubber latex	24 pcs.	---	240 pcs.



Blood Collection Sets

These products are primarily for use on patients with difficult vein conditions. Blood Collection Sets are available with different tubing lengths and needle gauges. The sets are available pre-assembled with Luer Adapter or Luer Adapter and Holder.

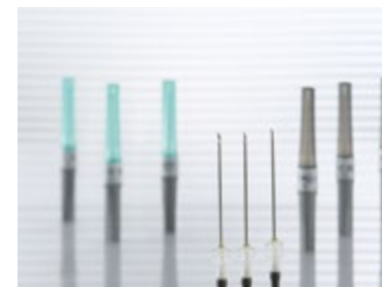
Item No.	Description	Size	Packaging	
			Inner	Outer
Blood Collection / Infusion Sets (sterile)				
450059	Blood Collection / Infusion Set	21G x 3/4"	Tubing length: 10cm	50 pcs. 1000 pcs.
450153	Blood Collection / Infusion Set	21G x 3/4"	Tubing length: 19cm	50 pcs. 1000 pcs.
450155	Blood Collection / Infusion Set	23G x 3/4"	Tubing length: 19cm	50 pcs. 1000 pcs.
Blood Collection Sets + Luer Adapters (sterile)				
450064	Blood Collection Set + Luer Adapter	21G x 3/4"	Tubing length: 10cm	50 pcs. 1000 pcs.
450065	Blood Collection Set + Luer Adapter	21G x 3/4"	Tubing length: 30cm	50 pcs. 1000 pcs.
450066	Blood Collection Set + Luer Adapter	21G x 3/4"	Tubing length: 19cm	50 pcs. 1000 pcs.
450089	Blood Collection Set + Luer Adapter	23G x 3/4"	Tubing length: 19cm	50 pcs. 1000 pcs.
450159	Blood Collection Set + Luer Adapter	23G x 3/4"	Tubing length: 30cm	50 pcs. 1000 pcs.
Blood Collection Sets + Holders (sterile)				
450371	Blood Collection Set + Holder	21G x 3/4"	Tubing length: 19cm	24 pcs. 240 pcs.
450373	Blood Collection Set + Holder	23G x 3/4"	Tubing length: 19cm	24 pcs. 240 pcs.
450375	Blood Collection Set + Holder	25G x 3/4"	Tubing length: 19cm	24 pcs. 240 pcs.
Blood Collection Sets + Blood Culture Holder (sterile)				
450186	Blood Collection Set + Blood Culture Holder	21G x 3/4"	Tubing length: 19cm	24 pcs. 240 pcs.



Blood Collection Needles

Blood Collection Needles are predominantly used in routine blood collection and are exclusively single-use. The colour of the needle protective cap simplifies visual recognition of the individual needle gauges. Yellow symbolises the needle dimension 20 G (0.90 mm), green 21 G (0.80 mm) and black 22 G (0.70 mm). Blood Collection Needles are supplied in two lengths: 1" and 1 1/2" (25 mm and 38 mm).

Item No.	Description	Size	Packaging			
			Inner	2nd Inner	Outer	
Hypodermic Luer Needles / Luer Adapters (sterile)						
411072	Hypodermic Luer Needle, yellow	20G x 1 1/2"	0.9 x 40mm	100 pcs.	2000 pcs.	10000 pcs.
411073	Hypodermic Luer Needle, green	21G x 1 1/2"	0.8 x 40mm	100 pcs.	2000 pcs.	10000 pcs.
411074	Hypodermic Luer Needle, black	22G x 1 1/2"	0.7 x 40mm	100 pcs.	2000 pcs.	10000 pcs.
450070	VACUETTE® Luer Adapter	20G		100 pcs.	2000 pcs.	6000 pcs.
VACUETTE® Multiple Use Drawing Needles (sterile)						
450047	VACUETTE® Multiple Use Drawing Needle, pink, suitable for veterinary use	18G x 1"	1.25 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450048	VACUETTE® Multiple Use Drawing Needle, pink, suitable for veterinary use	18G x 1 1/2"	1.25 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
450071	VACUETTE® Multiple Use Drawing Needle, black	22G x 1"	0.7 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450072	VACUETTE® Multiple Use Drawing Needle, green	21G x 1"	0.8 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450073	VACUETTE® Multiple Use Drawing Needle, yellow	20G x 1"	0.9 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450075	VACUETTE® Multiple Use Drawing Needle, black	22G x 1 1/2"	0.7 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
450076	VACUETTE® Multiple Use Drawing Needle, green	21G x 1 1/2"	0.8 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
450077	VACUETTE® Multiple Use Drawing Needle, yellow	20G x 1 1/2"	0.9 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
VACUETTE® Single Sample Needles (sterile, for veterinary use only)						
450068	VACUETTE® Single Sample Needle, pink	18G x 1"	1.25 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450069	VACUETTE® Single Sample Needle, pink	18G x 1 1/2"	1.25 x 38mm	100 pcs.	2000 pcs.	6000 pcs.



VACUETTE® VISIO PLUS Needles

The **VACUETTE®** VISIO PLUS Needle with optical venipuncture control can make an important contribution to simplifying blood collection routine for phlebotomists. The needle has a transparent plastic hub, which functions as a flash chamber. Successful vein entry is indicated when the flash chamber fills with blood.

Item No.	Description	Size	Packaging			
			Inner	2nd Inner	Outer	
VACUETTE® VISIO PLUS Needles (sterile)						
450040	VACUETTE® VISIO PLUS Needle, green	21G x 1 1/2"	0.8 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
450041	VACUETTE® VISIO PLUS Needle, black	22G x 1 1/2"	0.7 x 38mm	100 pcs.	2000 pcs.	6000 pcs.
450042	VACUETTE® VISIO PLUS Needle, green	21G x 1"	0.8 x 25mm	100 pcs.	2000 pcs.	6000 pcs.
450043	VACUETTE® VISIO PLUS Needle, black	22G x 1"	0.7 x 25mm	100 pcs.	2000 pcs.	6000 pcs.



Sharps Disposal Containers

Used blood collection equipment should always be disposed of in non-penetrable containers. All containers detailed here are suitable for safe, contamination-free disposal of needles, sharps and dangerous objects. A range of containers in different sizes is available, from 0.6 litres to 50 litres.

Item No.	Description	Size	Packaging	
			Inner	Outer
Sharps Disposal Containers				
450330	Minicompact	0.6 Litre	1 pc.	150 pcs.
450331	Minicompact	1.0 Litre	1 pc.	150 pcs.
450332	Biocompact	1.8 Litre	1 pc.	30 pcs.
450333	Biocompact	3.0 Litre	1 pc.	30 pcs.
450334	Biocompact	5.0 Litre	1 pc.	30 pcs.
450335	Biocompact	10 Litre	1 pc.	30 pcs.
450338	Biogrip	30 Litre	1 pc.	1 pc.
450339	Biogrip	50 Litre	1 pc.	1 pc.
Accessories				
450340	Minicompact Table Support, for 0.6 L and 1 L Minicompact containers		1 pc.	---
450341	Biocompact Table Support, for 1.8 L and 3 L Biocompact containers		1 pc.	30 pcs.
450342	Biocompact Wall Support, for 1.8 L, 3 L, 5 L and 10 L Biocompact containers		1 pc.	30 pcs.
450343	Compact Blood Collection Tray, for 0.6 L, 1 L, 1.8 L and 3 L containers		1 pc.	22 pcs.



Snap Caps

For recapping opened **VACUETTE**® tubes. Snap caps are suitable for all 13mm **VACUETTE**® tubes.

Item No.	Cap Colour	Description	Packaging	
			Inner	Outer
371516	white	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371517	green	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371518	yellow	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371519	royal blue	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371522	red	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371523	lavender	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.
371527	pink	Snap Cap for recapping 13mm tubes	1000 pcs.	5000 pcs.



VACUETTE® ID Snap Rings

By using ID Snap Rings, tubes for special analysis purposes can be visually identified at first glance in routine procedures.

The ID Snap Rings fit all **VACUETTE**® 13mm tubes as well as all 16mm tubes.

Item No.	Description	Inner	Packaging	
			2nd Inner	Outer
458710	VACUETTE ® ID Snap Ring - Starter Kit (contains all 5 colours)	1000 pcs.	---	5000 pcs.
458711	VACUETTE ® ID Snap Ring, orange	500 pcs.	---	4000 pcs.
458712	VACUETTE ® ID Snap Ring, green	500 pcs.	---	4000 pcs.
458713	VACUETTE ® ID Snap Ring, pink	500 pcs.	---	4000 pcs.
458714	VACUETTE ® ID Snap Ring, light blue	500 pcs.	---	4000 pcs.
458715	VACUETTE ® ID Snap Ring, grey	500 pcs.	---	4000 pcs.



Additional Accessories

Additional accessories, such as tourniquets and VacuDrops complete the comprehensive **VACUETTE**® Blood Collection range.

Item No.	Description	Inner	Packaging	
			2nd Inner	Outer
VacuDrop				
458815	VacuDrop	300 pcs.	---	3000 pcs.
Tourniquets (not made with natural rubber latex)				
840050	VACUETTE ® Tourniquet	---	---	500 pcs.
840051	VACUETTE ® Tourniquet for children	---	---	500 pcs.
840053	VACUETTE ® Disposable Tourniquet	25 pcs. / roll	20 rolls	100 rolls
840056	VACUETTE ® Super-T Disposable Tourniquet	80 pcs.	---	160 pcs.
840057	VACUETTE ® Super-T _{SP} Single Patient Tourniquet	30 pcs.	---	150 pcs.



VeinViewer® Flex and Vision 2

For real-time visualization in HD quality of veins up to 10mm below the skin and blood patterns up to 15mm below the skin, providing a compact solution for all vascular access needs and increasing first-stick success rates.

A 5-year warranty on both devices ensures peace of mind for the user.

Item No.	Description	Packaging	
		Inner	Outer
890001	VeinViewer® Flex, contains 2 pcs. Lithium Ion batteries	1 pc.	1 pc.
890004	VeinViewer® Vision 2, contains 2 pcs. Lithium Ion batteries	1 pc.	1 pc.
890003	Carrying Case for VeinViewer® Flex	1 pc.	1 pc.
890010	Spare Rechargeable Battery for VeinViewer® Flex and Vision 2	1 pc.	1 pc.

Please check availability on your market with your GBO sales representative.



VACUETTE® SECONDARY Tubes

VACUETTE® SECONDARY Tubes are perfect for aliquoting and pooling, for freezing and storing as well as for the transport of sample material. Two different materials (PET and PP) and packaging options (bulk or stack packed) guarantee maximum flexibility for all applications. Both lines are distinguished by their memorable product names: MULTIPLEX = bulk packed and SIMPLEX = stack packed.

Item No.	Description	Packaging	
		Inner	Outer
SECONDARY Tubes MULTIPLEX, PP - PREMIUM			
459000	SECONDARY Tube MULTIPLEX, PP, 13x75mm, with white Screw Cap	500 pcs.	2000 pcs.
459001	SECONDARY Tube MULTIPLEX, PP, 13x75mm, with orange Screw Cap	500 pcs.	2000 pcs.
459010	SECONDARY Tube MULTIPLEX, PP, 13x75mm, without cap	500 pcs.	2000 pcs.
SECONDARY Tubes MULTIPLEX, PET - PREMIUM			
459011	SECONDARY Tube MULTIPLEX, PET, 13x75mm, without cap	500 pcs.	2000 pcs.
SECONDARY Tubes SIMPLEX, PP - PREMIUM			
459023	SECONDARY Tube SIMPLEX, PP, 13x75mm, without cap	465 pcs.	1860 pcs.
SECONDARY Tubes SIMPLEX, PET - PREMIUM			
459022	SECONDARY Tube SIMPLEX, PET, 13x75mm, without cap	465 pcs.	1860 pcs.
SECONDARY Tubes SIMPLEX, PET - Non-ridged			
459020	SECONDARY Tube SIMPLEX RD*, PET, 13x75mm, without cap	496 pcs.	1984 pcs.
459021	SECONDARY Tube SIMPLEX BC**, PET, 13x75mm, without cap	496 pcs.	1984 pcs.

* designed for Roche PVT analyser

** designed for Beckman Coulter (Olympus) analyser



Greiner Bio-One Multipurpose Beakers

The Greiner Bio-One Multipurpose Beaker is manufactured from polypropylene. The sterile beaker with screw cap features an INTEGRITY SEAL, which ensures intactness of the product.

The beaker is shatterproof and resistant against chemical influences.

Item No.	Description	Packaging
724401	Multipurpose Beaker 100 ml, PP, without screw cap, graduated, natural, non-sterile	720 pcs.
724170	Screw cap, 61mm, natural, for 724401	720 pcs.
724173	Screw cap, 61mm, red, for 724401, bulk-packed	720 pcs.
724402	Multipurpose beaker, PP, 100 ml, with screw cap, graduated, natural, non-sterile	300 pcs.
724461	Multipurpose beaker, PP, 100 ml, with screw cap, graduated, natural, sterile	300 pcs.
724473	Multipurpose beaker, PP, 100 ml, with screw cap red, graduated, sterile	300 pcs.



Decappers

Depending on the type of instrument, the VACUETTE® UNICAP Decappers open VACUETTE® Blood Collection Tubes quickly and safely, either directly in the analyser rack or after placing tubes in adapters of the decapping belt. The time consuming process of sorting out various tube types prior to decapping is no longer necessary, as the UNICAP instruments can open different tube types in one working step.

Item No.	Description	Packaging	
		Inner	Outer
UNICAP Decappers			
855900	VACUETTE® UNICAP Decapper for Roche / Hitachi Racks	1 pc.	1 pc.
855901	VACUETTE® UNICAP Decapper for Tecan Racks	1 pc.	1 pc.
855902	VACUETTE® UNICAP Decapper for Bayer Advia Racks	1 pc.	1 pc.
855903	VACUETTE® UNICAP Decapper for Olympus Racks	1 pc.	1 pc.
855904	VACUETTE® UNICAP Belt Decapper (with belt adapter for insertion of tubes)	1 pc.	1 pc.
855905	VACUETTE® UNICAP Decapper for Sysmex / Iris / Menarini	1 pc.	1 pc.
Accessories			
855907	VACUETTE® UNICAP Belt Adapter 100 mm (grey)		40 pcs.
855908	VACUETTE® UNICAP Belt Adapter 75 mm (anthracite)		40 pcs.



VACUETTE® Transport Line

The **VACUETTE®** Transport Line ensures safe transport of biological substances category B from blood collection right up until analysis in the laboratory.

The transport systems have been tested and approved in accordance with ADR/RID.

Item No.	Description	Packaging	
		Inner	Outer
VACUETTE® Transport Boxes (VTB)			
472001	VACUETTE® Transport Box (VTB) incl. Foam Insert for 40 Tubes <u>with</u> Transport Carton HK0190	1 pc.	10 pcs.
472040	VACUETTE® Transport Box (VTB) incl. Foam Insert for 40 Tubes <u>without</u> Transport Carton HK0190	1 pc.	10 pcs.
472010	Foam Insert grey for VACUETTE® Transport Box (VTB) for 40 Tubes	1 pc.	168 pcs.
HK0190	Mailing Carton for 1 pc. VACUETTE® Transport Box (VTB)	1 pc.	---
472016	Cooler Pack for VACUETTE® Transport Box (VTB), light blue L220 x B120 x H111mm	1 pc.	104 pcs.
472011	GBO Rack for Blood Collection Tubes, 10 positions, autoclavable	1 pc.	100 pcs.
VACUETTE® Transport Containers (VTC)			
800105	VACUETTE® Transport Container (VTC) incl. Foam Insert for 12 Tubes <u>with</u> Transport Carton HK0259	1 pc.	12 pcs.
800110	VACUETTE® Transport Container (VTC) incl. Foam Insert for 12 Tubes <u>without</u> Transport Carton HK0259	1 pc.	12 pcs.
800101	Foam Insert for VACUETTE® Transport Container (VTC) for 12 Tubes	1 pc.	20 pcs.
HK0259	Mailing Carton for 1 pc. VACUETTE® Transport Container (VTC)	1 pc.	---
472017	Cooler Pack for VACUETTE® Transport Container (VTC), light blue, Ø 90mm	1 pc.	200 pcs.
472015	Absorbent Pad for VACUETTE® Transport Box (VTB) and VACUETTE® Transport Container (VTC)	---	100 pcs.



Accessories VACUETTE® Transport Line

Carrier bags are suitable for convenient transport of one or several **VACUETTE®** transport boxes or containers. The transport bags consist of isothermal material and are thus equally suitable for keeping samples cool. The ThermoScan Temperature Monitoring Unit can be used wherever it is necessary to monitor the temperature over a longer period of time with a calibrated instrument.

Item No.	Description	Packaging
Bags		
472020	Carrier Bag (Isotherm), small, dark blue, for 1 pc. VACUETTE® Transport Box (VTB)	1 pc.
472022	Carrier Bag (Isotherm), small, dark blue, for 1 pc. VACUETTE® Transport Container (VTC)	1 pc.
472023	Carrier Bag (Isotherm), medium, dark blue for 3 pcs. VACUETTE® Transport Boxes (VTB)	1 pc.
472024	Carrier Bag (Isotherm), big, dark blue for 4 pcs. VACUETTE® Transport Boxes (VTB)	1 pc.
Labels		
HE4723	Package label UN3373, 65mm x 65mm, Polyester 50my white	1 roll (1000 pcs.)
ThermoScan Temperature Monitoring Unit		
472200	ThermoScan without certificate (2x Logger, 1x Reader, 1x Software)	1 pc.
472201	ThermoScan with certificate (2x Logger, 1x Reader, 1x Software)	1 pc.
472202	Temperature Logger for ThermoScan (without certificate)	1 pc.
472203	Temperature Logger for ThermoScan (with certificate)	1 pc.
472204	Clips for Temperature Logger, black (spare part)	10 pc.

MiniCollect® Capillary Blood Collection System

The **MiniCollect®** product line is a functional capillary blood collection system, which has been especially developed for patients with difficult veins, children and neonates. Our innovative design guarantees high functionality and flexibility during use.

The unique construction of the closure cap makes it possible for the user to collect a blood sample from the **MiniCollect®** tube, without opening it, thus saving time and ensuring increased safety.



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Capillary Blood Collection System (Tubes)

MiniCollect® Tubes are suitable for collection, transport and processing of capillary blood (collected by lancet stick) from for example infants, toddlers, children and geriatric patients. The tubes are available for different areas of application with a choice of fill volumes. Sample volumes range from 0.25 to 1ml.

Item No.	Nom. Vol.	Cap Colour	Description	Packaging	
				Inner	Outer
Z No Additive					
450412	---	white	Z No Additive	100 pcs.	1000 pcs.
9NC Coagulation 3.2%					
450447	0.5ml	light blue	9NC Coagulation 3.2% (only suitable for venous blood)	100 pcs.	1000 pcs.
450413	1ml	light blue	9NC Coagulation 3.2% (only suitable for venous blood)	100 pcs.	1000 pcs.
9NC Coagulation 3.8%					
450409	1ml	light blue	9NC Coagulation 3.8% (only suitable for venous blood)	100 pcs.	1000 pcs.
Z Serum					
450471	0.5ml	red	Z Serum	100 pcs.	1000 pcs.
450470	1ml	red	Z Serum	100 pcs.	1000 pcs.
Z Serum Sep					
450473	0.5ml	gold	Z Serum Sep	100 pcs.	1000 pcs.
450472	0.8ml	gold	Z Serum Sep	100 pcs.	1000 pcs.
LH Lithium Heparin					
450478	0.5ml	green	LH Lithium Heparin	100 pcs.	1000 pcs.
450477	1ml	green	LH Lithium Heparin	100 pcs.	1000 pcs.
LH Lithium Heparin Sep					
450479	0.8ml	light green	LH Lithium Heparin Sep	100 pcs.	1000 pcs.
K3E K3EDTA					
450476	0.25ml	lavender	K3E K3EDTA	100 pcs.	1000 pcs.
450475	0.5ml	lavender	K3E K3EDTA	100 pcs.	1000 pcs.
450474	1ml	lavender	K3E K3EDTA	100 pcs.	1000 pcs.
K2E K2EDTA					
450484	0.25ml	lavender	K2E K2EDTA, transparent label	100 pcs.	1000 pcs.
450480	0.5ml	lavender	K2E K2EDTA	100 pcs.	1000 pcs.
FX Sodium Fluoride / Potassium Oxalate					
450481	0.25ml	grey	FX Sodium Fluoride / Potassium Oxalate	100 pcs.	1000 pcs.
450482	0.5ml	grey	FX Sodium Fluoride / Potassium Oxalate	100 pcs.	1000 pcs.



Capillary Blood Collection System (Accessories)

The blood collection capillary and funnel are used for simplifying blood transfer from the puncture site to the **MiniCollect®** tube. Due to the relatively small size of **MiniCollect®** tubes, a special carrier tube was designed. The carrier tubes ensure compatibility of the system with most common centrifuge and laboratory instruments. The **MiniCollect®** Safety Lancets and Lancelino Safety Lancets ensure consistent puncture depth for straightforward safe sample collection.

Item No.	Description	Inner	Packaging	
			2nd Inner	Outer
Carrier Tubes				
450419	Carrier Tube, amber for bilirubin, 13x75 mm	100 pcs.	---	1000 pcs.
450420	Carrier Tube, 13x75 mm	100 pcs.	---	1000 pcs.
Funnels				
450421	Funnel	100 pcs.	1000 pcs.	12.000 pcs.
Capillaries				
450430	Capillary for Serum, 250µl	100 pcs.	1000 pcs.	10000 pcs.
450431	Capillary for Serum, 80µl	100 pcs.	1000 pcs.	10000 pcs.
450437	Capillary for NaF, 250µl	100 pcs.	1000 pcs.	10000 pcs.
450432	Capillary for NaF, 80µl	100 pcs.	1000 pcs.	10000 pcs.
450433	Capillary for EDTA, 250µl	100 pcs.	1000 pcs.	10000 pcs.
450434	Capillary for EDTA, 80µl	100 pcs.	1000 pcs.	10000 pcs.
450435	Capillary for Heparin, 250µl	100 pcs.	1000 pcs.	10000 pcs.
450436	Capillary for Heparin, 80µl	100 pcs.	1000 pcs.	10000 pcs.
Safety Lancets with Blade (sterile)				
450427	Safety Lancet, pink, penetration depth 1 mm	200 pcs.	---	2000 pcs.
450428	Safety Lancet, green, penetration depth 1.5 mm	200 pcs.	---	2000 pcs.
450429	Safety Lancet, blue, penetration depth 2 mm	200 pcs.	---	2000 pcs.
Safety Lancets with Needle (sterile)				
450438	Safety Lancet, lavender, 28G, penetration depth 1.25 mm	200 pcs.	---	2000 pcs.
450439	Safety Lancet, orange, 23G, penetration depth 2.25 mm	200 pcs.	---	2000 pcs.
Lancelino Safety Lancets with Blade (sterile)				
450524	Safety Lancet 0.8mm, yellow, penetration depth 2mm	200 pcs.	---	2000 pcs.
Lancelino Safety Lancets with Needle (sterile)				
450520	Safety Lancet 30G, light green, penetration depth 1.2mm	200 pcs.	---	2000 pcs.
450521	Safety Lancet 25G, lavender, penetration depth 1.5mm	200 pcs.	---	2000 pcs.
450522	Safety Lancet 21G, blue, penetration depth 1.8mm	200 pcs.	---	2000 pcs.
450523	Safety Lancet 21G, green, penetration depth 2.4mm	200 pcs.	---	2000 pcs.

VACUETTE® Automatic and Manual ESR Systems and Accessories

The safe and reliable ESR readers are distinguished by their simple handling. They are fully automated and can be used in the ward, the doctor's office or in a laboratory. The readers work using infrared-sensors, which in contrast to visual methods guarantee improved reproducibility of results.

The erythrocyte sedimentation rate (ESR) is measured in an enclosed system, ensuring that the user does not come into contact with patients' blood. All ESR-readers are equipped with "permanent access". This means that tubes can be inserted into the measuring channels randomly and at any time, since each tube is analysed independently.

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Sed Rate Timer	50
VACUETTE® MultiMixer	50
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ESR Racks	51
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4NC ESR sodium citrate 3.2%, PET	51
4NC ESR sodium citrate 3.2%, PP	51





Automatic ESR System and Accessories

Three different sized models of ESR instruments are offered. Readers with 100 channels are ideal for middle to large laboratories. The 20 and the 10 channel readers were designed for small laboratories or doctors' offices. All **VACUETTE®** ESR instruments operate in accordance with the Westergren method.

Item No.	Description	Packaging	
		Inner	Outer
Sed Rate Screeners			
836580	Sed Rate Screener 100/II (SRS 100/II) including Software (G2S120BO, Vers. 1.2) automatic ESR reader with integrated printer (for 100 tubes)	1 pc.	1 pc.
836587	Sed Rate Screener 20/II (SRS 20/II) including Software (G2P120BO, Vers. 1.2) automatic ESR reader with integrated printer (for 20 tubes)	1 pc.	1 pc.
Sed Rate Timer			
836592	Sed Rate Timer 10/II (SRT 10/II) including Software (G2M100BO, Vers. 1.0) automatic ESR reader (for 10 tubes)	1 pc.	1 pc.
VACUETTE® MultiMixer			
836577	VACUETTE® MultiMixer for VACUETTE® Tubes (Racks not included)	1 pc.	1 pc.
Accessories			
836582	Thermal printer for SRT 10/II, SRS 20/II and SRS 100/II	1 pc.	1 pc.
836283	Barcode scanner for SRS 20/II and SRS 100/II	1 pc.	1 pc.
836585	Thermal paper roll for printer (836582) and integrated printers in 836580 & 836587	1 pc.	1 pc.
836588	ESR Control Unit for SRT 10/II, SRS 20/II and SRS 100/II	1 pc.	1 pc.
836578	Rack for VACUETTE® 20-Pos. MultiMixer for 9 mm VACUETTE® Tubes	1 pc.	1 pc.
836579	Rack for VACUETTE® 20-Pos. MultiMixer for 13 mm VACUETTE® Tubes	1 pc.	1 pc.



Manual ESR System and Accessories

Two versions of the **VACUETTE®** Manual ESR System are available. The open sedimentation system consists of an ESR Tube made of PET plastic, ESR Pipette with graduated adapter and ESR Rack with graduation. The closed system consists of an ESR rack with graduation and a special ESR plastic tube with either a 2.75 or 1.5 ml volume.

Item No.	Description	Packaging	
		Inner	Outer
ESR Pipette with graduated adapter			
727111	ESR Pipette with adapter, graduated, 200mm, for 454073	200 pcs.	800 pcs.
ESR Racks			
836072	ESR Rack without graduation for 454073	1 pc.	5 pcs.
836075	ESR Rack with graduation for 729070	1 pc.	8 pcs.
836077	ESR Rack with graduation for 729073	1 pc.	8 pcs.



ESR Tubes

The erythrocyte sedimentation rate (ESR) can be used as a non-specific search technique for inflammatory reactions and observing their development. **VACUETTE®** ESR tubes are used for determination of the ESR. ESR tubes with 1.5ml, 2ml and 2.75ml fill volume are made out of polypropylene plastic.

Tubes are packed 50 pcs per rack and 800 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description	
4NC ESR sodium citrate 3.2%, PET - PREMIUM (Safety Twist Cap)						
454284	1.5ml	black	black	13 x 75	4NC ESR sodium citrate, PET	1200 pcs.
454073	2ml	black	black	13 x 75	4NC ESR sodium citrate, PET	1200 pcs.
4NC ESR sodium citrate 3.2%, PP (Polypropylene)						
729073	1.5ml	black	---	9 x 120	4NC ESR sodium citrate, PP, closed system	800 pcs.
729070	2.75ml	black	---	9 x 120	4NC ESR sodium citrate, PP, closed system	800 pcs.

VACUETTE® Urine Collection System

Urine, like blood, is a potentially infectious sample material. The **VACUETTE®** Urine Collection System enables a closed, sterile urine collection that in turn will maintain the sample quality and guarantee the efficiency of the testing procedure. Tubes are available with or without preservatives.

The preservative helps stabilise the sample, which is important when the sample cannot be analysed within 2 hours of collection. Tubes can be ordered with either a round base or a conical base. Round-based tubes are used for chemical urine tests, whilst tubes with a conical base are used for microscopic examinations of urine sedimentation.

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VACUETTE® Urine Tubes

VACUETTE® Urine Tubes are used as collection, transportation and/or analysis vessels. The VACUETTE® Urine Tubes are sterile, leak-proof and virtually unbreakable. They are available as round or conical based. Furthermore, they are offered with or without preservative. Tubes with preservative should be inverted 6-8 times following collection in order to achieve homogenous mixing.

Tubes are packed 50 pcs per rack and 1200 pcs per carton

Item No.	Nom. Vol.	Cap Colour	Ring Colour	Tube Size	Description
Z Urine No Additive - PREMIUM (Safety Twist Cap)					
456007	6.5ml	yellow	yellow	13 x 100	Z Urine No Additive, Round Base
Z Urine No Additive - Non-ridged (pull cap)					
456065	6.5ml	yellow	yellow	13 x 100	Z Urine No Additive, Round Base
455027	6.5ml	yellow	yellow	16 x 100	Z Urine No Additive, Conical Base
455227	7ml	yellow	yellow	16 x 100	Z Urine No Additive, Round Base
455007	10ml	yellow	yellow	16 x 100	Z Urine No Additive, Round Base
455028	9.5ml	yellow	yellow	16 x 100	Z Urine No Additive, Conical Base
Urine Culture (boric acid) - Ridged (Twist Cap)					
456009	6.5ml	yellow	black	13 x 100	Urine Culture (boric acid), Round Base
Urine Culture (boric acid) - Non-ridged (pull cap)					
454239	4ml	yellow	black	13 x 75	Urine Culture (boric acid), Round Base
455003	10ml	yellow	black	16 x 100	Urine Culture (boric acid), Round Base
455029	9.5ml	yellow	black	16 x 100	Urine Culture (boric acid), Conical Base
Urine CCM - Non-ridged (pull cap)					
454486	4ml	yellow	black	13 x 75	Urine CCM, Round Base
456284	6ml	yellow	black	13 x 100	Urine CCM, Round Base
455243	9ml	yellow	black	16 x 100	Urine CCM, Conical Base
455052	10ml	yellow	black	16 x 100	Urine CCM, Round Base
485511	10ml	yellow	black	16 x 100	Urine CCM, Barcode Label, Round Base



VACUETTE® Urine Accessories

The VACUETTE® Urine Collection System product line offers VACUETTE® Urine Tubes, assorted Urine Beakers, Urine Transfer Devices and a 24 hr Urine Collection Container.

Item No.	Name	Nom. Vol.	Description	Packaging	
				Inner	Outer
Urine Sets (Urine Tube + Urine Transfer Device)					
453070	Urine Set (16 x 100)	9.5ml	VACUETTE® Urine Tube + Urine Transfer Device (455028+450751), single-packed, Conical Base	1 set	300 sets
Urine Culture Sets (Urine Culture Tubes + Urine Transfer Device)					
453022	Urine Culture Set (13 x 75)	4ml	VACUETTE® Urine Culture Tube + Urine Transfer Device (454239+450751), single-packed, Round Base	1 set	300 sets
453041	Urine Culture Set (13 x 100)	6.5ml	VACUETTE® Urine Culture Tube + Urine Transfer Device (456009+450751), single-packed, Round Base	1 set	300 sets
453080	Urine Culture Set (16 x 100)	9.5ml	VACUETTE® Urine Culture Tube + Urine Transfer Device (455029+450751), single-packed, Conical Base	1 set	300 sets
453085	Urine Culture Set (16 x 100)	10ml	VACUETTE® Urine Culture Tube + Urine Transfer Device (455003+450751), single-packed, Round Base	1 set	300 sets
Urine CCM Set (Urine CCM Tubes + Urine Transfer Device)					
453031	Urine CCM Set (13 x 75)	4ml	VACUETTE® Urine CCM Tube + Urine Transfer Device (454486+450751), single-packed, Round Base	1 set	300 sets
453033	Urine CCM Set (13 x 100)	6ml	VACUETTE® Urine CCM Tube + Urine Transfer Device (456284+450751), single-packed, Round Base	1 set	300 sets
453032	Urine CCM Set (16 x 100)	9ml	VACUETTE® Urine CCM Tube + Urine Transfer Device (455243+450751), single-packed, Conical Base	1 set	300 sets
453034	Urine CCM Set (16 x 100)	10ml	VACUETTE® Urine CCM Tube + Urine Transfer Device (455052+450751), single-packed, Round Base	1 set	300 sets
Urine Beakers (sterile)					
724320	Urine Beaker	100ml	yellow lid, with ring screw closure, bulk-packed	---	300 pcs.
724300	Urine Beaker	100ml	with Safety Stopper, white lid, single-packed	1 pc.	100 pcs.
724310	Urine Beaker	100ml	with integrated Transfer Device, yellow lid, single-packed	1 pc.	200 pcs.
724311	Urine Beaker	100ml	with integrated Transfer Device, yellow lid, 5 pcs./bag	5 pc.	200 pcs.
24h Urine Containers					
724315	24h urine container	2.7L	brown, with screw closure	---	34 pcs.
724316	VACUETTE® URI-PLUS	3L	24h urine container with integrated transfer device	---	36 pcs.
Urine Transfer Devices					
450251	Urine Transfer Device, short			50 pcs.	600 pcs.
450252	Urine Transfer Device, long			50 pcs.	600 pcs.
450253	Urine Transfer Device, short, sterile, single-packed			50 pcs.	300 pcs.

Greiner Bio-One Saliva Collection and Quantification System

The easy collection method and permanent availability make saliva an interesting alternative to other specimen materials such as urine or blood. Saliva is particularly suitable, if samples are required quickly, efficiently and non-invasively. On the basis of a liquid saliva extraction solution, Greiner Bio-One has developed a collection and quantification system, that is suitable for a broad range of applications, ranging from therapeutic drug monitoring to hormone analytics to drug screening.

The system consists of various components: A saliva extraction solution for the collection, a collection beaker, two evacuated tubes for the laboratory tests and the Saliva Quantification Kit for photometric determination of saliva calibrators.

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Greiner Bio-One Saliva Collection System - Self-collection

Self-collection means that the test person can do the saliva collection his/herself without the assistance of any medical personnel. The system as well as the corresponding instructions for use is tested and certified for self-collection.

Item No.	Description	Packaging	
		Inner	Outer
Greiner Bio-One Saliva Collection System - Self-collection			
881001	GBO Saliva Collection System single-packed, for self-collection, consisting of: 881210, 881113 a. 881112	1 pc.	24 pcs.



Greiner Bio-One Saliva Collection System - For professional use

Doctors or medical personnel additionally have the option of purchasing the following single products to create their own setting for saliva collection.

Item No.	Description	Packaging	
		Inner	Outer
Greiner Bio-One Saliva Collection System - For professional use			
881002	GBO Saliva Collection System bulk-packed, 50 sets, for professional use, consisting of: 881112, 881210 u. 881113	1 carton	50 pcs.
881112	(1) GBO Saliva Extraction Solution 4ml, pH 4.2 13x75 royal blue cap-royal blue ring, non-ridged	24 racks	1200 pcs.
881210	(2) GBO Saliva Collection Beaker with integrated transfer device	1 carton	200 pcs.
881113	(3) GBO Saliva Transfer Tube 3.5ml 13x75 orange cap-orange ring, PREMIUM, for professional use	24 racks	1200 pcs.
881117	(3) GBO Saliva Transfer Tube 3.5ml <u>without</u> Sleeves 13x75 orange cap-orange ring, PREMIUM, for professional use	24 racks	1200 pcs.



Greiner Bio-One Saliva Quantification Kit

With the Saliva Quantification Kit, the saliva quantity is photometrically determined in the saliva extraction solution. The internal standard in the sample is calculated using saliva calibrators and back calculated to the saliva quantity.

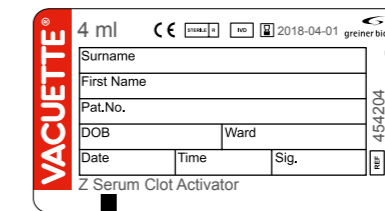
Item No.	Description	Packaging	
		Inner	Outer
Greiner Bio-One Saliva Quantification Kit			
881010	GBO Saliva Quantification Kit	---	1 pc.

Labelling of VACUETTE® Products

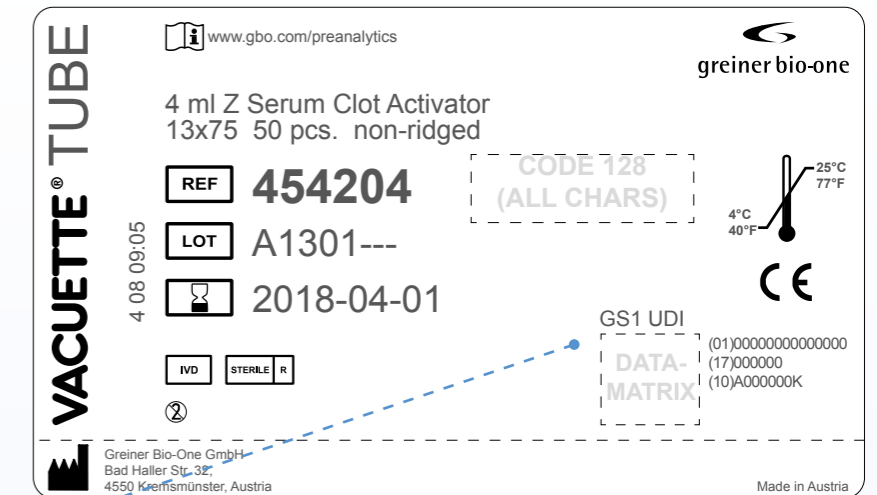
The table below provides a selection of the symbols used on our labelling, with an explanation in line with ÖNORM EN 980:2008.

Symbol	Description	Letter code	Additive
	Symbol for "Do Not Reuse"	Z	None / Clot Activator
	Symbol for "Use By"	LH	Lithium Heparin
	Symbol for "Batch Code"	NH	Sodium Heparin
	Symbol for "Catalogue Number"	AH	Ammonium Heparin
	Symbol for "Date of Manufacture"	K2E	EDTA Dipotassium Salt
	Symbol for "Manufacturer"	K3E	EDTA Tripotassium Salt
	Symbol for "Sterilized Using Ethylene Oxide"	9NC	Coagulation Trisodium Citrate 9:1
	Symbol for "Sterilized Using Irradiation"	4NC	Coagulation Trisodium Citrate 4:1
	CE Mark	FX	Sodium Fluoride / Potassium Oxalate
	Symbol for "In Vitro Diagnostic Medical Device"	FE	Sodium Fluoride / EDTA
	Symbol for "Consult Instructions for Use"	FH	Sodium Fluoride / Heparin
	Symbol for "Temperature Limitation"		
	Symbol for "Authorised Representative in the European Community"		
	Symbol for "Contains Phthalates"		
	Symbol for "Contains or Presence of Natural Rubber Latex"		

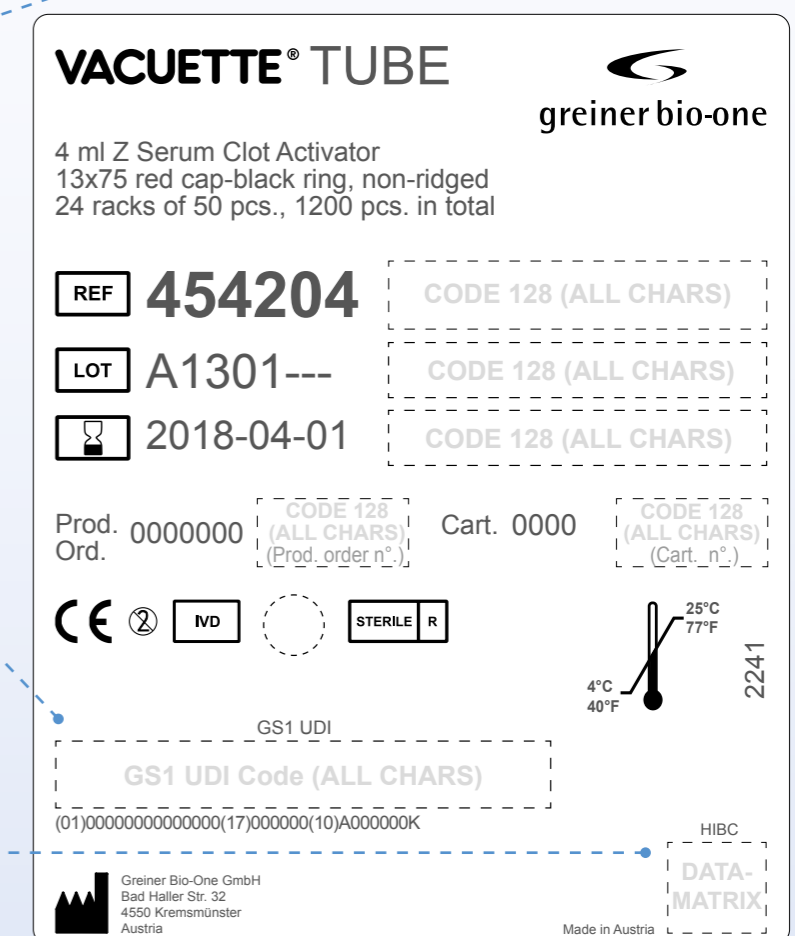
1 Tube Label



2 Rack Label



3 Carton Label



GS1 UDI Code:

This is in GS1 linear form on the case labels and in GS1 datamatrix form on the racks. Both contain information on the GTIN as well as the expiry date and lot number.

(01) indicates the GTIN
(17) the expiry date in format YYYY-MM-DD
(10) indicates the lot number

HIBC Code:

With just one swipe over this code, the item number, lot number, expiry date and packaging unit can be read – a significant benefit for the logistics chain.

Products with Highest Demands in Quality

Product quality is of highest priority for Greiner Bio-One and to be sure of this, a thorough and multi-level quality management system has been developed.

Quality Standards

Highly qualified and well-trained employees put the quality standards into practice. High-tech production technology as well as first-rate control and inspection devices ensure the highest quality standards.

Greiner Bio-One is certified according to ISO 9001:2008 and EN ISO 13485:2012/AC:2012.

The products also bear the CE mark.

Furthermore, every item that is distributed in the United States is cleared by the F.D.A., the U.S. Food and Drug Administration.



Quality Control

Quality controls and inspections are carried out by the quality control department as well as production personnel in the form of in-process checks. To ensure that these checks are carried out professionally, staff are trained regularly.

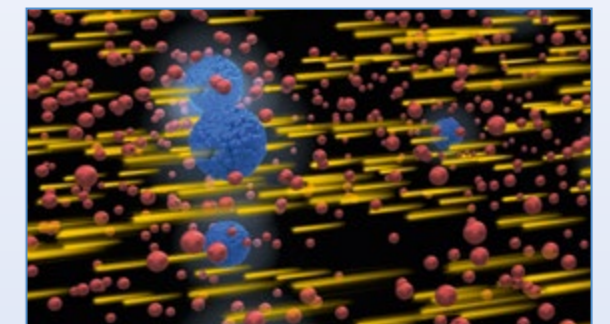
The process consists of six steps.

- Incoming goods inspections
- In-process production controls
- Laboratory testing
- Sterility controls
- Final product inspections
- Final inspection prior to dispatch

Sterilisation

Sterilisation is carried out according to the latest standard of technology. Accelerated electron rays permeate the packaged products, killing off microorganisms completely. Sterilisation by electron rays is a validated and certified procedure. The process is extremely reliable, does not affect the product and does not leave any residue.

To certify that a product has been through the sterilisation process, a red indicator is positioned on the label of the outer carton.





Production Locations

One of Greiner Bio-One's core competences is innovation. Over the course of the years, the company has become established as leader for knowledge and expertise, consistently building on this reputation. The production techniques are constantly subject to optimisation in cooperation with qualified partner companies, ensuring that Greiner Bio-One remains worldwide technology leader in this segment. Greiner Bio-One products are manufactured at high-tech production facilities to the highest quality standards in six locations on four continents, providing short delivery times all over the world.

Greiner Bio-One Österreich

The headquarters of Greiner Bio-One International GmbH are in Kremsmünster, Austria, where **VACUETTE**® blood collection tubes, urine tubes and accessories for specimen collection are manufactured.



Greiner Bio-One North America Inc.

In order to supply the North American market directly, a production location was built in Monroe, North Carolina. Here, more than 290 highly trained employees manufacture **VACUETTE**® products to the usual exceptional standard.



Greiner Bio-One Brazil

For distribution on the South American market, a production facility was built in Americana, Brazil, in 2004, for the manufacture of **VACUETTE**® blood collection tubes.



Greiner Bio-One Kft, Hungary

The fourth production facility is located in Mosonmagyaróvár, Hungary. Accessories for blood and urine collection are manufactured here.



Greiner Bio-One Thailand Ltd.

Since October 2008 Asia is supplied from our new production location in Amata Nakorn, Thailand.



Greiner Bio-One GmbH, Rainbach

In spring 2009, an extremely modern production facility with a cleanroom for **VACUETTE**® safety products was opened in Rainbach, Austria.

At Your Doorstep, Across The World

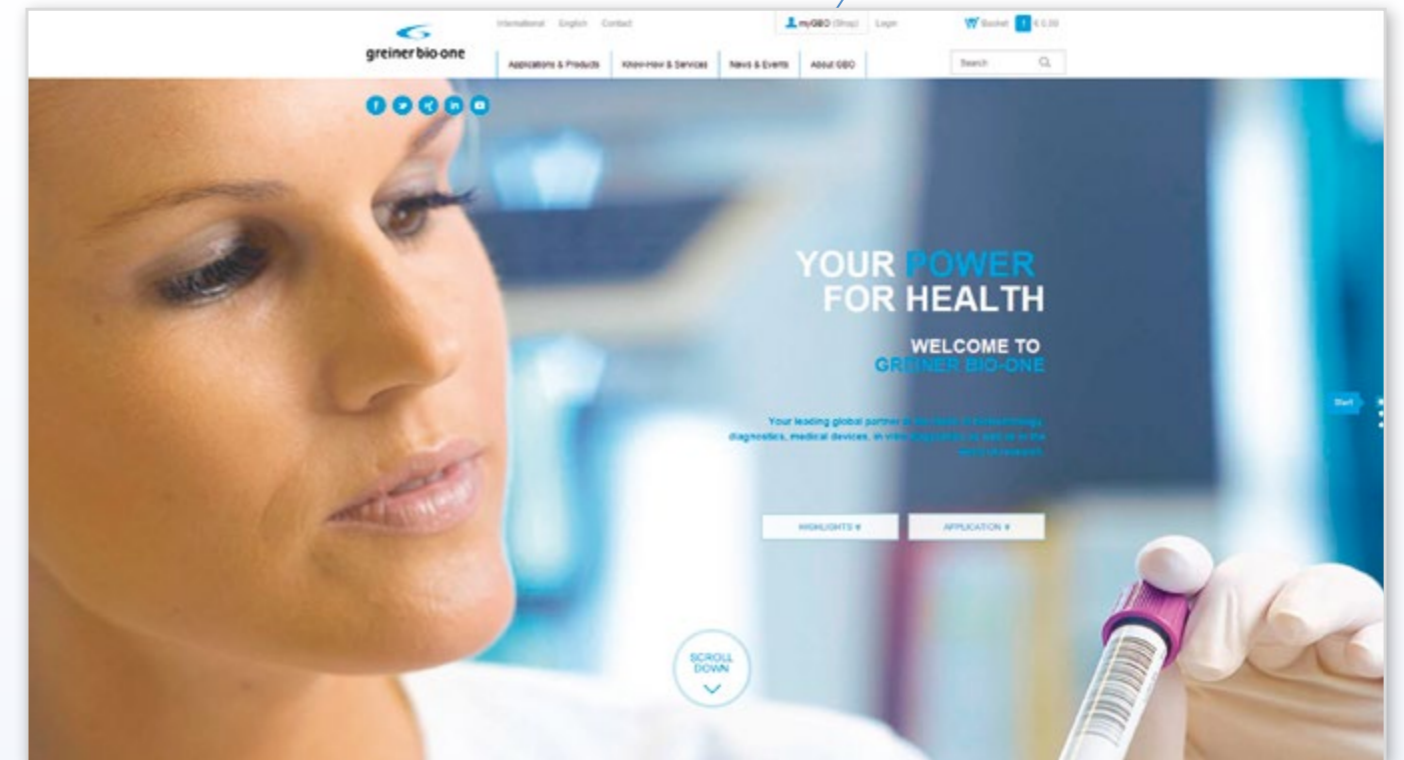
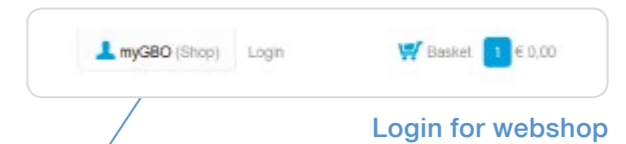
Our customers' wishes are the at the core of our actions. With our broad product range and multitude of application areas, our focus is on market requirements when developing innovative products and competent services.

With more than 1800 employees at seven production locations on four continents, as well as 23 subsidiaries in addition to our international distribution partners, we are represented directly in more than 100 countries. We have specialists working in sales, who have comprehensive expert competence. This ensures on-site customer care, quick deliveries and uncomplicated service. Furthermore, an online shop, a technical hotline as well as an FAQ databank are available to our customers so that product-related questions can be answered quickly and competently.

Greiner Bio-One Web Portal

You can find additional information on all Greiner Bio-One product groups online. The new GBO portal combines website and webshop in one application, which has the advantage of everything being available at one address:

www.gbo.com



Our new website offers the following advantages:

- The download menu is now divided into product groups, with downloads of flyers, brochures, etc. available in a range of languages.
- “Frequently asked questions” for the various products are answered in the FAQs section.
- The latest developments are shown in brief and with an eye-catching layout in the Marketing Highlights.



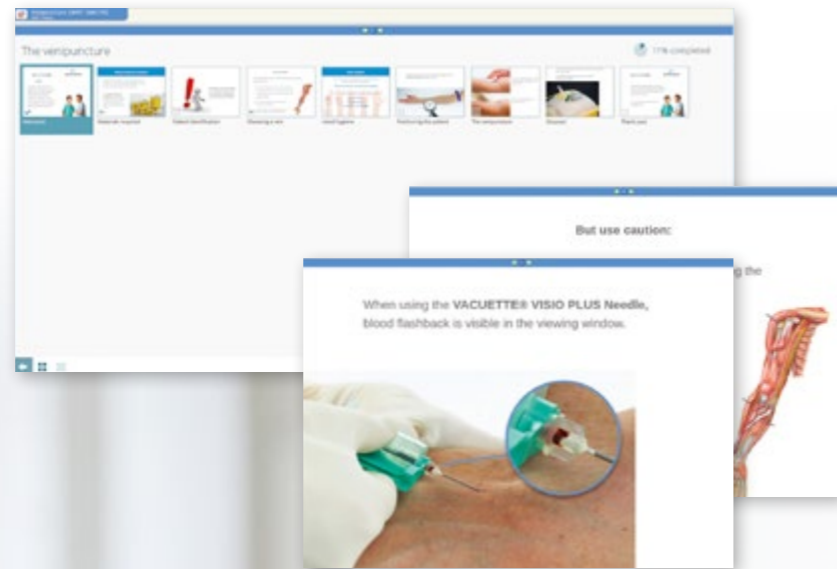
Greiner Bio-One E-Learning

The long-term goal of our new e-learning platform **GBO Compass** is to provide the users of the **VACUETTE®** products special knowledge for correct usage.

Entry is via the address:
<https://compass.gbo.com>

To get started you need a password, which you can request from us. For easy and uncomplicated registration, please contact:

compass@gbo.com



With **GBO Compass**, we appeal to all people who work mainly in specimen collection. The multimedia educational content is available 24/7, regardless of time and location.

The purpose is to avoid pre-analytical errors, increasing the quality of samples, and thus to achieve process optimization. Ultimately, this should lead to time and cost savings in daily routine work.

Only an optimal use of our products, together with the necessary expertise can guarantee a long-term customer satisfaction.

Further Education and Training Material

The preanalytical phase includes all processes from preparing the patient for sample collection right up to specimen analysis in the laboratory. Various people are involved in the process and they need the appropriate expert knowledge in order to prevent any possible errors.

To support our customers in applying **VACUETTE®** and **MiniCollect®** products for sample collection, we have on offer a broad range of training materials.

Handling brochures illustrate the individual working steps and give valuable tips on avoiding mistakes:



In addition, **VACUETTE®** handling videos are available on our Greiner Bio-One YouTube channel under the following link:

<https://www.youtube.com/user/GBOMKTG/videos>



980063
VACUETTE®
Blood Collection
Techniques



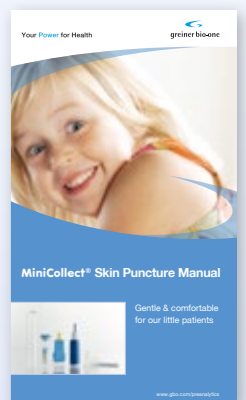
980102
VACUETTE®
Handling Recommendations
for Blood Collection



980124
VACUETTE®
Safety Brochure



980183
VACUETTE®
Preanalytics Manual



980132
MiniCollect® Skin
Puncture Manual

GeT perfect with Greiner eHealth Technologies



GeT – Greiner eHealth Technologies is a process-optimized system with perfectly coordinated products, individually customized to meet your requirements. This makes GeT the optimal complete solution right into the last detail, which enables you to work with considerably more efficiency and safety.

The middleware concept from Greiner eHealth Technologies deals with pre and postanalytical processes and offers increased security for patients, more efficient workflows, a higher level of standardisation, and transparency at all stages. We will support you through a process of change that is unique on the market, moving successfully from 'GeT Perfect' to 'Be Perfect'.

GeT efficient

Even with increasing numbers of samples, our system ensures that work is straightforward and supported, and the quality is enhanced. Whether you choose our complete solution or just one of our modules, we will assist you on the path to your ideal procedure.



For more information visit the following website:
www.gbo.com/get

The Green Spirit



In times when public awareness of ecological issues is on the increase regarding, for example, greenhouse gases and global warming, the company's social-political responsibility also increases. As a medical technology company that manufactures plastics, Greiner Bio-One has risen to this challenge, and in the course of the comprehensive ecology project "The Green Spirit", has directed all company processes towards this aim. The manufacturing of Greiner Bio-One products takes place in consideration of ecological aspects.

Production machines are powered by clean, renewable sources of energy. Fossil fuels like gas or oil are not used on our machines. Due to the special recycling construction, the machines function on a material saving basis and a state-of-the-art heat recovery system helps save additional energy.

VACUETTE® line products are delivered in non-bleached outer cartons. The cartons consist of 100% recycled material. Our **VACUETTE®** specimen collection tubes are provided in plastic racks of 50 pieces each. These racks are manufactured from polystyrene sheets, which is recycled material too.

For more information please have a look at our brochure "The Green Spirit - Environment protection and careful resource planning" under www.gbo.com.

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454056	VACUETTE® TUBE 4 ml LH Lithium Heparin, 13x75 green cap-black ring, transparent label, non-ridged	Blood Collection Tubes	16
454059	VACUETTE® TUBE 4 ml K2E K2EDTA Separator, 13x75 lavender cap-yellow ring, non-ridged	Blood Collection Tubes	17
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454073	VACUETTE® TUBE 2 ml ESR sodium citrate 3.2%, 13x75 black cap-black ring, PET, PREMIUM	Blood Collection Tubes	22/51
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454225	VACUETTE® TUBE 3.5 ml Z Serum Separator Clot Activator, 13x75 red cap-yellow ring, non-ridged	Blood Collection Tubes	16
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454280	VACUETTE® TUBE 4 ml CPDA, 13x75 yellow cap-black ring, non-ridged	Blood Collection Tubes	21
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454332	VACUETTE® TUBE 3.5 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, non-ridged	Blood Collection Tubes	14
454334	VACUETTE® TUBE 3 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-black ring, sandwich tube, non-ridged	Blood Collection Tubes	14
454360	VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.2%, 13x75 blue cap-white ring, sandwich tube, transparent label, non-ridged	Blood Collection Tubes	14/24
454381	VACUETTE® TUBE 2 ml 9NC Coagulation sodium citrate 3.8%, 13x75 blue cap-white ring, sandwich tube, PREMIUM	Blood Collection Tubes	14/24
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890004	VeinViewer® Vision 2, contains 2 pcs. Lithium Ion batteries	Accessories/Medical Devices	39
890010	Spare Rechargeable Battery for VeinViewer® Flex and Vision 2	Accessories/Medical Devices	39
HE4723	Package label UN3373, 65mm x 65mm, Polyester 50my white	Accessories/Medical Devices	43
HK0190	Mailing Carton 270x127x183, brown, one-tone-printed for VTB	Accessories/Medical Devices	42
HK0259	Mailing Carton, 110x110x140mm, brown, one-tone-printed for VTC	Accessories/Medical Devices	42



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