

Your **Power** for Health



greiner bio-one



VACUETTE[®] Safety Products

Our Innovations
for Your Safety

Needlestick Injuries – Still a Big Risk



Potential source of danger: Recapping a used needle.

Injuries due to contaminated puncture devices are still the most frequent cause of accidents in hospitals. This is a significant source of danger for many employees in the healthcare industry.

At this moment in time, there are already 30 blood-borne pathogens that we know of. The most dangerous are HBV, HCV and HIV. Recent studies show that it is up to ten times more likely for more infections to occur in a hospital setting than in an external setting.

Prevention – The Only Way to Avert Damages

The aftermath of an infection can have far-reaching effects on both the career and the personal circumstances of the affected person and his/her family, with social as well as financial consequences. This is a burden that cannot be carried by the affected person or insurance company. Damages must be averted by correct prevention.

Provide your staff with the necessary protection

Protect your members of staff from this risk, to give them the workplace security they need to work successfully and without unnecessary pressure.

Let us support you

Our informative brochures can be useful for your employees to help them approach the topic of needlestick injuries professionally.

Using safety products in accordance with the demands of the European Directive 2010/32/EU provides comprehensive protection in various dangerous situations.

Better protection at an affordable price

A comparison of the costs required for providing care after an injury with the costs required for prevention, shows that prevention has a clear advantage.



The European Directive 2010/32/EU

In order to prevent needlestick injuries, the European social partners reached a general agreement in 2009, which was passed in 2010 as a Directive of the European Union.

The Directive must be ratified as mandatory national law in all member states by **May 11, 2013**.

The Goal: Greatest Possible Safety

The goal is to create a work environment with the greatest possible safety for all employees in the healthcare field. This is to be achieved with information and instruction, building awareness of the dangers, as well as through risk assessment and systematic risk elimination through appropriate protective measures such as, for example, using safe instruments with needle protection.

Act Now !

Faced with the grave dangers, it is advisable to begin putting the changes into practice immediately. In some member states, the preventive measures required by the European Directive have already been put into law, e.g. in Spain or in Germany with the directive "TRBA 250."

The following product features apply to all **VACUETTE®** Safety products, and are stipulated in the Guideline for implementing the European Directive:

- The instrument must not detract from patient care
- The instrument must function reliably
- The safety mechanism must be an integral part of the safety device, and not a separate accessory
- The instrument must be easy to use and require only a minimal change in technique by medical professionals
- The safety mechanism must be easy to activate and grant the care person adequate control over the procedure
- The instrument may not create any other safety risks or sources of exposure to blood
- One-handed or automatic activation is preferable
- A clear signal, either acoustic, tangible or visible must indicate to the user correct activation of the safety mechanism
- An activated safety mechanism should be irreversible

Furthermore **VACUETTE®** Safety Products provide additional advantages, which simplify application and increase safety.

VACUETTE® QUICKSHIELD Safety Tube Holder

For daily blood collection procedures

The **VACUETTE®** QUICKSHIELD Safety Tube Holder is especially suitable for routine blood collection. There is no change to usual collection technique, and the safety shield is activated one-handed with the aid of solid surface or with the thumb. This product can provide the user with the simplest handling and reliable infection protection. Once activated it is not possible to unthread the used needle, thereby additionally preventing injuries on the backend of the needle sleeve.



Left: **VACUETTE®** QUICKSHIELD Complete Right: **VACUETTE®** QUICKSHIELD Complete PLUS

Also available as a complete product with a pre-assembled **VACUETTE®** VISIO PLUS or a **VACUETTE®** Multiple Use Drawing Needle, making the **VACUETTE®** QUICKSHIELD Safety Tube Holder the ideal product for safe blood collection. The **VACUETTE®** VISIO PLUS Needle with optical venipuncture control makes blood collection much easier for the user. With the transparent view window in the needle hub, blood flow is visible immediately upon correct vein penetration.

Application*



1 Thread the needle



2 Remove protective cap



3 Venipuncture



4 Insert the tube



5 Remove the last tube



6 Activate the safety mechanism (with the aid of solid surface or thumb)



7 Audible click indicates activation



8 Disposal

* For the complete blood collection procedure please refer to the Instructions for Use for each product.

VACUETTE® TIPGUARD Safety Tube Holder

In case of increased infection risk

Comfort and safety are the features of the **VACUETTE®** TIPGUARD Safety Tube Holder. After blood collection the needle, whilst still inside the patient's vein, is automatically withdrawn by pressing the two blue buttons on the top of the holder. The used needle is kept safe within the holder for subsequent disposal.



Application*



1 Thread the needle



2 Remove protective cap



3 Venipuncture



4 Insert the tube



5 Fully remove the last tube



6 Activate the safety-mechanism



7 Correctly activated TIPGUARD



8 Disposal

* For the complete blood collection procedure please refer to the Instructions for Use for each product.

VACUETTE® PREMIUM Safety Needle System Tube-Touch

Maximum safety

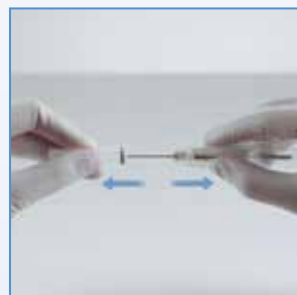
The latest product development from the Preanalytics division is the **VACUETTE® PREMIUM** Safety Needle System Tube-Touch. The safety needle is already integrated into the blood collection holder. The new product is absolute simplicity, as there is no need for the blood collection staff to manually activate the safety mechanism. The safety engineered design represents automatic safety. The visual indicator on the safety shield provides the user additional assistance in identifying the depth of the needle in the vein.

Activation - Tube-Touch:

When the user pushes in the tube, the pressure of the tube onto the back end of the needle releases the safety shield, automatically covering the needle which moves forward lightly resting against patient's skin.

The safety shield can then move freely, enclosing the needle via the spring mechanism as it is withdrawn from the vein. Features of the system are extreme comfort and maximum safety, with the additional advantage that the user can collect blood samples as usual and has no additional handling steps.

Application*



1 Remove protective cap



2 Unactivated Safety Needle System



3 Venipuncture



4 Fully insert the tube
(activation is automatic)



5 Remove the tube



6 Remove the needle from the vein



7 Activated system



8 Disposal

* For the complete blood collection procedure please refer to the Instructions for Use for each product.



VACUETTE® Safety Blood Collection Set

Especially for difficult vein conditions

The **VACUETTE®** Safety Blood Collection Set has been especially developed for patients with difficult vein conditions. As the protection mechanism is activated whilst the needle is still in the vein, a high level of safety is ensured. Correct activation is indicated via an acoustic signal. With the transparent view window, visual control of successful vein penetration is possible, thus increasing venipuncture safety.

The **VACUETTE®** Safety Blood Collection Set is available in three versions:

- Safety Blood Collection/Infusion Set (without Luer Adapter); also suitable for short-term infusion procedures
- Safety Blood Collection Set with Luer Adapter
- Safety Blood Collection Set with Holder



Application*



1 Remove protective cap



2 Venipuncture



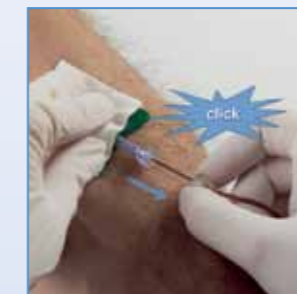
3 Insert the tube



4 Remove the last tube



5 Activate the safety mechanism



6 Remove the Safety Blood Collection Set



7 Activated Safety Blood Collection Set



8 Disposal

* For the complete blood collection procedure please refer to the Instructions for Use for each product.

MiniCollect® Safety Lancets

Maximum safety even for capillary puncture

The handling of the **MiniCollect®** Safety Lancets could not be easier, making them extremely safe. Slight pressure on the button of the colour-coded lancet casing activates the puncture, after which the lancet is automatically withdrawn into the casing. Once activated, the safety mechanism cannot be reversed. The **MiniCollect®** Safety Lancets for Capillary Blood Collection are available in various puncture depths and needle and blade versions, which is easily identifiable with the colour code:

MiniCollect® Safety Lancets with blade: pink 1.0mm, green 1.5mm, blue 2.0mm.

MiniCollect® Safety Lancets with needle: lavender 1.25mm / 28G, orange 2.25mm / 23G.



MiniCollect® Safety Lancets
left - version with blade (yellow cap)

MiniCollect® Safety Lancets
right - version mit needle (white cap)

Application*



1 Remove the protective cover

2 Position the Lancet

3 Skin puncture

4 Drop of blood
(Wipe away first the drop of blood, then continue with capillary blood collection per instructions for use.*)

* For the complete blood collection procedure please refer to the Instructions for Use for each product.

VACUETTE® PREMIUM Tube

Optimum protection when opening sample tubes in the laboratory

The **VACUETTE®** PREMIUM Tube with Safety Twist Cap as component of the **VACUETTE®** Blood Collection System provides laboratory staff a high level of protection, especially when opening the tube. Just a half twist is necessary to open the safety cap. This controlled opening movement helps prevent blood splashes and aerosols. The firm fit of the cap enables absolute transport safety.



Open with a short twist movement



Opened tube with Screw Thread



Sharps Disposal Containers

For routine disposal of sharp and pointed objects

Disposal containers increase safety considerably. They are used in practically all clinical areas. Our product line covers different disposal containers for varying disposal situations. The capacity volumes range from 0.6 litres to 50 litres. The containers are non-penetrable and once they have been closed, they cannot be re-opened.

Certification: British Standard, UN, AFNOR

You Will Find a Selection of **VACUETTE®** Safety Products on The Following Pages.

Item No.	Description	Packaging	
VACUETTE® QUICKSHIELD Safety Tube Holder			
450230	VACUETTE® QUICKSHIELD Safety Tube Holder	50 pcs.	1000 pcs.
450238	VACUETTE® QUICKSHIELD Complete 21G x 1", sterile Safety Tube Holder & VACUETTE® Multiple Use Drawing Needle Combination Product	30 pcs.	300 pcs.
450237	VACUETTE® QUICKSHIELD Complete 21G x 1 1/2", sterile Safety Tube Holder & VACUETTE® Multiple Use Drawing Needle Combination Product	30 pcs.	300 pcs.
450234	VACUETTE® QUICKSHIELD Complete 22G x 1", sterile Safety Tube Holder & VACUETTE® Multiple Use Drawing Needle Combination Product	30 pcs.	300 pcs.
450206	VACUETTE® QUICKSHIELD Complete 22G x 1 1/2", sterile Safety Tube Holder & VACUETTE® Multiple Use Drawing Needle Combination Product	30 pcs.	300 pcs.
450235	VACUETTE® QUICKSHIELD Complete PLUS 21G x 1", sterile Safety Tube Holder & VACUETTE® VISIO PLUS Needle Combination Product	30 pcs.	300 pcs.
450239	VACUETTE® QUICKSHIELD Complete PLUS 21G x 1 1/2", sterile Safety Tube Holder & VACUETTE® VISIO PLUS Needle Combination Product	30 pcs.	300 pcs.
450226	VACUETTE® QUICKSHIELD Complete PLUS 22G x 1", sterile Safety Tube Holder & VACUETTE® VISIO PLUS Needle Combination Product	30 pcs.	300 pcs.
450228	VACUETTE® QUICKSHIELD Complete PLUS 22G x 1 1/2", sterile Safety Tube Holder & VACUETTE® VISIO PLUS Needle Combination Product	30 pcs.	300 pcs.
VACUETTE® TIPGUARD Safety Tube Holder			
450240	VACUETTE® TIPGUARD Safety Tube Holder	60 pcs.	480 pcs.
VACUETTE® PREMIUM Safety Needle System Tube-Touch			
450255	VACUETTE® PREMIUM Safety Needle System Tube-Touch 20G x 1 1/4", sterile	50 pcs.	800 pcs.
450257	VACUETTE® PREMIUM Safety Needle System Tube-Touch 21G x 1 1/4", sterile	50 pcs.	800 pcs.
450256	VACUETTE® PREMIUM Safety Needle System Tube Touch 22G x 1 1/4", sterile	50 pcs.	800 pcs.
VACUETTE® Safety Blood Collection Sets			
450090	VACUETTE® Safety Blood Collection/Infusion Set 25G x 3/4", 19 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450091	VACUETTE® Safety Blood Collection/Infusion Set 21G x 3/4", 19 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450092	VACUETTE® Safety Blood Collection/Infusion Set 23G x 3/4", 19 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450083	VACUETTE® Safety Blood Collection Set + Luer Adapter 21G x 3/4", 10 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450081	VACUETTE® Safety Blood Collection Set + Luer Adapter 21G x 3/4", 19 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450095	VACUETTE® Safety Blood Collection Set + Luer Adapter 21G x 3/4", 30 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450084	VACUETTE® Safety Blood Collection Set + Luer Adapter 23G x 3/4", 10 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450082	VACUETTE® Safety Blood Collection Set + Luer Adapter 23G x 3/4", 19 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450096	VACUETTE® Safety Blood Collection Set + Luer Adapter 23G x 3/4", 30 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450099	VACUETTE® Safety Blood Collection Set + Luer Adapter 25G x 3/4", 30 cm tubing, sterile, single-packed	50 pcs.	1000 pcs.
450087	VACUETTE® Safety Blood Collection Set + Holder 21G x 3/4", 10 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450085	VACUETTE® Safety Blood Collection Set + Holder 21G x 3/4", 19 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450086	VACUETTE® Safety Blood Collection Set + Holder 23G x 3/4", 19 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450080	VACUETTE® Safety Blood Collection Set + Holder 25G x 3/4", 30 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450182	VACUETTE® Safety Blood Collection Set + Blood Culture Holder 21G x 3/4", 19 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450183	VACUETTE® Safety Blood Collection Set + Blood Culture Holder 23G x 3/4", 19 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450184	VACUETTE® Safety Blood Collection Set + Blood Culture Holder 21G x 3/4", 30 cm tubing, sterile, single-packed	24 pcs.	240 pcs.
450185	VACUETTE® Safety Blood Collection Set + Blood Culture Holder 23G x 3/4", 30 cm tubing, sterile, single-packed	24 pcs.	240 pcs.

Item No.	Description	Packaging	
MiniCollect® Safety Lancets			
450427	MiniCollect® Safety Lancet, 1 mm, pink, with blade, sterile	200 pcs.	2000 pcs.
450428	MiniCollect® Safety Lancet, 1,5 mm, green, with blade, sterile	200 pcs.	2000 pcs.
450429	MiniCollect® Safety Lancet, 2 mm, blue, with blade, sterile	200 pcs.	2000 pcs.
450438	MiniCollect® Safety Lancet, 1,25 mm, 28G, lavender, with needle, sterile	200 pcs.	2000 pcs.
450439	MiniCollect® Safety Lancet, 2,25 mm, 23G, orange, with needle, sterile	200 pcs.	2000 pcs.
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.
VACUETTE® PREMIUM Tubes (Selection from Product Range)			
474092	4ml, red, black, 13x75, Z Serum Clot Activator, transparent label	50 pcs.	1200 pcs.
476092	6ml, red, black, 13x100, Z Serum Clot Activator, transparent label	50 pcs.	1200 pcs.
476792	6ml, red, black, 13x100, Z Serum Clot Activator, paper label	50 pcs.	1200 pcs.
474071	4ml, red, yellow, 13x75, Z Serum Sep Clot Activator, transparent label	50 pcs.	1200 pcs.
474771	4ml, red, yellow, 13x75, Z Serum Sep Clot Activator, paper label	50 pcs.	1200 pcs.
476071	5ml, red, yellow, 13x100, Z Serum Sep Clot Activator, transparent label	50 pcs.	1200 pcs.
476771	5ml, red, yellow, 13x100, Z Serum Sep Clot Activator, paper label	50 pcs.	1200 pcs.
474084	4ml, green, black, 13x75, LH Lithium Heparin, transparent label	50 pcs.	1200 pcs.
474784	4ml, green, black, 13x75, LH Lithium Heparin, paper label	50 pcs.	1200 pcs.
476084	6ml, green, black, 13x100, LH Lithium Heparin, transparent label	50 pcs.	1200 pcs.
474083	4ml, green, yellow, 13x75, LH Lithium Heparin Sep, transparent label	50 pcs.	1200 pcs.
474783	4ml, green, yellow, 13x75, LH Lithium Heparin Sep, paper label	50 pcs.	1200 pcs.
474327	3.5ml, light blue, black, 13x75, 9NC Coagulation sodium citrate 3.2%, transparent label	50 pcs.	1200 pcs.
474036	4ml, lavender, black, 13x75, K3E K3EDTA, transparent label	50 pcs.	1200 pcs.



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