

making a difference



**WE TAKE
CARE
OF YOUR
SAFETY**

VACUETTE®

Safety products

Greiner Bio-One has a wide range of safety products for various circumstances.


greiner
BIO-ONE

The consequences of a needlestick injury can have far-reaching implications both professionally and personally for the person affected and their family.



One of the most effective ways to protect yourself is to use safety products.

NEEDLESTICK INJURIES ARE HISTORY

A large number of exposures to bloodborne pathogens in the healthcare sector can be attributed to sharps-related injuries. Safety standards to protect healthcare workers as well as advances in technology have helped to reduce occurrences but have not eliminated the risk.

More than 50% of all reported sharps injuries involve nursing staff and physicians and occur in surgical settings, patient rooms

and emergency departments.* Needlesticks involving phlebotomy personnel, though in lesser numbers, are still an issue.

However, this does not mean that needlestick injuries represent an unavoidable occupational risk. The correct use of VACUETTE® safety products can minimize or potentially eliminate this risk.

WE TAKE CARE OF YOUR SAFETY BY PROVIDING:

- / A wide range of safety products.
- / Product options for specific applications.
- / The right safety product for every situation.

*International Safety Center. U.S. EPINet Sharps Injury and Blood and Body Fluid Exposure Surveillance Research Group. Sharps Injury Data Report for 2019; 36 hospitals contributing data, 1335 total records. Report available at <https://internationalsafetycenter.org/wp-content/uploads/2020/06/2019-EPINet-Needlestick-Sharps-Summary.pdf>.

THE RIGHT SAFETY PRODUCT FOR EVERY SITUATION

We offer an extensive range of safety products, allowing the most suitable device to be selected for every customer and every patient. At Greiner Bio-One, you will find the optimal safety device for your individual needs as well as safety design options: from user-controlled




shielding devices to those with semi-automatic retraction.

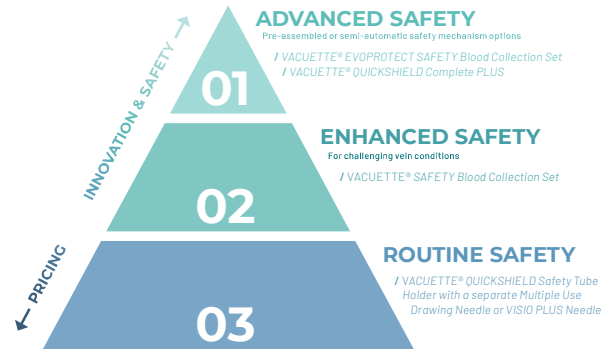
Our products enable you to optimally protect yourself against needlestick injuries in a manner to suit your environment.

SAFETY FOR EVERY SITUATION
and individual need

GREINER BIO-ONE PRODUCT OPTIONS

You will find the right solution for every situation in our portfolio of safety products. From those with a manual safety mechanism to semi-automated safety, we have the right solution for your individual needs.

 <p>Standard venipuncture.</p> <p>Our VACUETTE® QUICKSHIELD products are suitable for routine, daily blood collection.</p> <p><i>VACUETTE® QUICKSHIELD Complete PLUS, QUICKSHIELD with Multiple Use Drawing Needle or QUICKSHIELD with VISIO PLUS Needle</i></p>	 <p>Challenging vein conditions.</p> <p>All of our safety blood collection sets are designed for patients who present more challenging vein conditions, such as geriatric or pediatric patients. The VACUETTE® EVOPROTECT ensures a gentle blood collection experience with the added benefit of semi-automatic retraction.</p> <p><i>VACUETTE® EVOPROTECT or SAFETY Blood Collection Set</i></p>	 <p>Blood cultures.</p> <p>For the collection of blood cultures and routine samples, the safety blood collection set with pre-assembled blood culture holder provides a convenient solution.</p> <p><i>VACUETTE® SAFETY Blood Collection Set with Blood Culture Holder</i></p>
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FIND THE RIGHT SAFETY PRODUCT QUICKLY AND EASILY

In the following overview, you can see at a glance the features that each product offers and the type of safety it provides. This facilitates making the best possible choice for your needs.

		Safety device	Semi-automatic needle retraction	In-vein activation	One-handed activation	Pre-assembled product	Flash indicating successful venipuncture	Shield can be re-positioned	Blood collection & infusion with the same set	Extra thin-walled needle* (increased flow rate)	Virtually no tubing memory	Not made with natural rubber latex	DEHP free
01	VACUETTE® EVO PROTECT SAFETY Blood Collection Set	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VACUETTE® QUICKSHIELD Complete PLUS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
02	VACUETTE® SAFETY blood collection set	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
03	VACUETTE® QUICKSHIELD Safety Tube Holder with VISIO PLUS Needle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	VACUETTE® QUICKSHIELD Safety Tube Holder with Multiple Use Drawing Needle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* 21G and 23G



Learn more about our safety products on our website.



Needlestick injuries can be prevented with implementation of safety products.



A protective shield keeps the needle secured after activation, protecting the user from risk of needlestick.



FOR DAILY, ROUTINE BLOOD COLLECTION

VACUETTE® QUICKSHIELD Safety Tube Holder

The ergonomic design of the holder ensures a good grip during venipuncture.

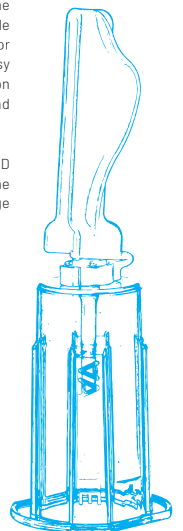
NO CHANGE TO COLLECTION TECHNIQUE

The VACUETTE® QUICKSHIELD Safety Tube Holder by Greiner Bio-One can be used with either VACUETTE® Multiple Use Drawing Needle or VACUETTE® VISIO PLUS Needle. With VACUETTE® QUICKSHIELD Complete PLUS, a VISIO PLUS Needle is pre-assembled with the QUICKSHIELD Safety Tube Holder.

The protective shield is attached directly to the holder. With the

one-handed activation of the protective shield using a stable surface, the index finger or thumb, this product provides easy handling as well as protection from needlestick injury and biohazardous exposure.

The VACUETTE® QUICKSHIELD Safety Tube Holder protects the user without the need to change collection technique.



PROTECTIVE SHIELD FOR ADDED SAFETY.

- / No change to collection technique.
- / Rotational safety shield provides more flexibility to adapt to patient-specific circumstances.
- / Audible and tactile click indicating proper activation of the safety shield.

EASILY
SAVE TIME

with the
pre-assembled
option

THE COMBINED PRODUCT

VACUETTE® QUICKSHIELD COMPLETE PLUS

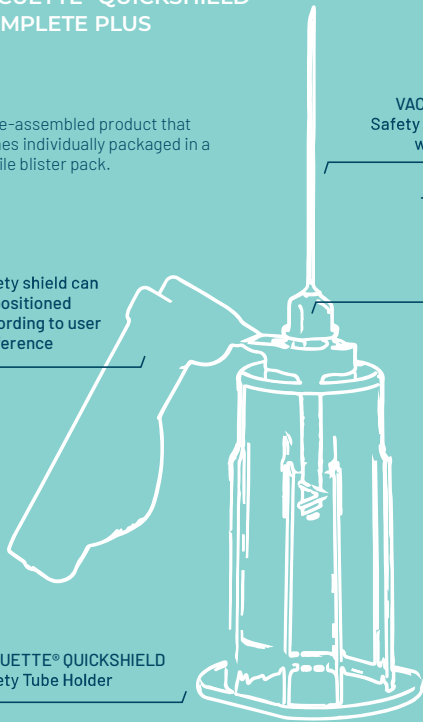
A pre-assembled product that comes individually packaged in a sterile blister pack.

VACUETTE® QUICKSHIELD
Safety Holder pre-assembled
with VISIO PLUS Needle

The VISIO PLUS needle
has a transparent
view window for
optical control during
venipuncture

Safety shield can
be positioned
according to user
preference

VACUETTE® QUICKSHIELD
Safety Tube Holder



PLEASE
OBSERVE THE
INSTRUCTIONS
FOR USE

available at
www.gbo.com

ACTIVATING THE SAFETY MECHANISM

Option 1



Option 2



1

Activate the safety
mechanism using
a **stable surface**,
index finger or
thumb.

2

Proper activation
is indicated by an
audible and tactile
click.

IMPROVED SAFETY

Once the shield is
in place, the needle
is **securely** and
irreversibly
enclosed.



The VACUETTE® SAFETY Blood Collection Set provides a gentle experience for the patient.

Ergonomic packaging is easy to open and minimizes waste.



AN ENHANCED LEVEL OF SAFETY

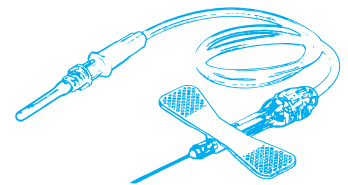
This product provides a high degree of safety with activation while the cannula is still in the vein. Proper activation by the user is associated with a clearly audible click. The SAFETY Blood Collection Set thereby provides enhanced protection against needlestick injuries. Visual confirmation of successful venipuncture is facilitated with a transparent view area, which also allows for visual

control throughout collection. The set can be used for venous blood collection or infusions for up to five hours.*

The SAFETY Blood Collection Set is a sterile, single-use winged needle, connected to flexible tubing, with or without a luer adapter, or pre-assembled with standard or blood culture holder.

INTUITIVE PRODUCT DESIGN.

- / A view area in the body of the device provides visual indication of successful venipuncture.
- / Tubing of different lengths offers more flexibility in blood collection.
- / The safety mechanism provides simple, in-vein activation.



ENHANCED SAFETY FOR CHALLENGING SITUATIONS

VACUETTE® SAFETY
Blood Collection Set

VERSATILE USE

for blood collection or infusion* (up to 5 hours)

FOUR PRODUCT VARIATIONS

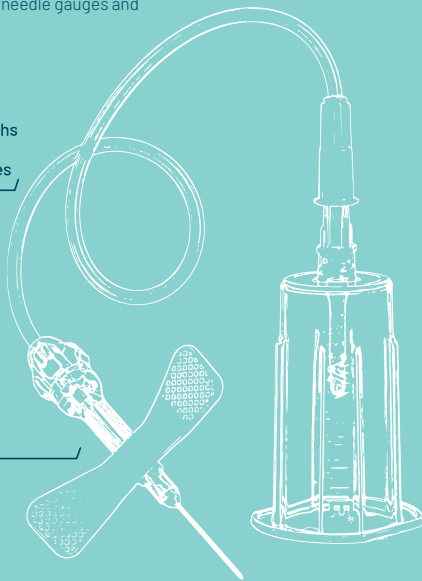
SAFETY BLOOD COLLECTION SET

The VACUETTE® Safety Blood Collection Set is available as an infusion set or pre-assembled with a luer adapter, standard holder or blood culture holder with various needle gauges and tubing lengths.

Pre-assembled products are available in sterile blister packaging

Tubing with different lengths offers more flexibility in blood collection procedures

A view area in the body of the device provides visual confirmation of successful venipuncture



PLEASE OBSERVE THE INSTRUCTIONS FOR USE

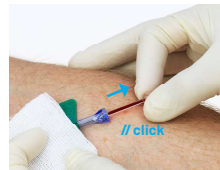
available at www.gbo.com

EASY ACTIVATION OF THE SAFETY MECHANISM



1

Activate the safety mechanism by **pressing on both sides of the clear hub**.



2

Pull back. Correct activation is indicated by an audible and tactile **click**.



IMPROVED SAFETY

Following activation, the needle is securely and irreversibly enclosed for maximum safety.

The next evolution of safety
in blood collection.



THE GENTLE TOUCH

VACUETTE® EVOPROTECT
SAFETY Blood Collection Set

May be used for
blood collection
and subsequent
short-term infusion
for up to 4 hours.

THE NEXT EVOLUTION OF SAFETY

The semi-automatic, spring mechanism minimizes risk of needlestick injury and makes your daily work safer because we believe that every needlestick injury is one too many.

The VACUETTE® EVOPROTECT SAFETY Blood Collection Set is designed for patient comfort and intuitive use. It consists of a winged needle with a spring-activated safety mechanism when the release buttons are

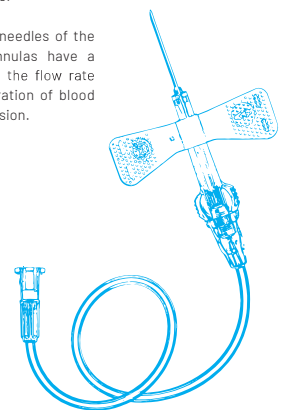
pressed.

The EVOPROTECT is meant for one-handed activation while the needle is still in the vein, which virtually eliminates the risk of needlestick injuries.

Extra thin-walled needles of the 21G and 23G cannulas have a positive effect on the flow rate as well as the duration of blood collection and infusion.

SEMI-AUTOMATIC SAFETY MECHANISM.

- / An audible click confirms successful activation.
- / Activation ensures the needle is safely and irreversibly secured within the body of the device.



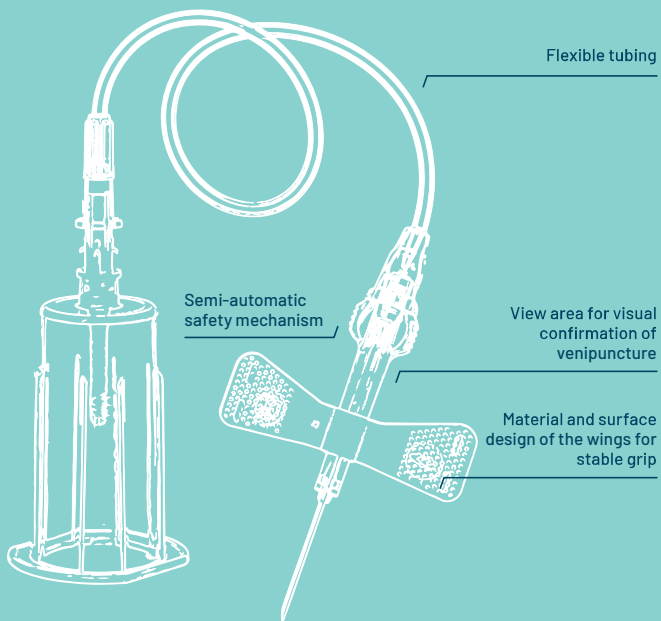
EASE OF USE

with optimal design
for intuitive handling

THE NEXT EVOLUTION OF SAFETY

VACUETTE® EVOPROTECT SAFETY BLOOD COLLECTION SET

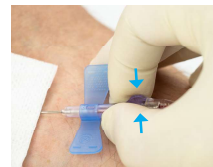
The trigger of the patented, semi-automatic safety mechanism is located on the side of the device, facilitating one-handed activation while keeping patient comfort in mind.



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MAXIMUM SAFETY IN USE



1

Activate the safety mechanism with one hand by **pressing the blue release buttons**. Take care not to hinder the automatic retraction.



2

After the needle has retracted automatically, you will hear a **click**. This indicates correct and successful activation of the safety mechanism.



THE SPRING MECHANISM

allows semi-automatic activation from the patient's vein to minimize risk.

SERVICES



SAFETY FOR EVERY LEVEL

You will find the right product for every circumstance, from those for routine procedures to advanced safety products with semi-automatic safety mechanism.



PERSONAL ADVICE

Our sales team is happy to advise you any time there are questions about our products and their application. Together you will find the right product for your individual needs.



TRAINING OPPORTUNITIES

We offer a wide range of training options for the proper handling of our products. In-person or virtually, our application experts are available to help.

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Find these and more products in our online shop

PRODUCT OVERVIEW

VACUETTE® QUICKSHIELD Safety Tube Holder

Item no.	Qty. inner / outer
450230	50 / 1.000

VACUETTE® QUICKSHIELD Complete PLUS

Item no.	Color code	Needle size	Needle length	Needle wall type	Qty. inner / outer
450235V1	● green	21 G	1"	thin wall	30 / 360
450239V1	● green	21 G	1.5"	thin wall	30 / 360
450226V1	● black	22 G	1"	thin wall	30 / 360
450228V1	● black	22 G	1.5"	thin wall	30 / 360

SAFETY Blood Collection/Infusion Set

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450091V1	● green	21 G	0.75"	thin wall	7.5"	90 / 1,080
450092V1	● blue	23 G	0.75"	thin wall	7.5"	90 / 1,080
450090V1	● orange	25 G	0.75"	thin wall	7.5"	90 / 1,080

SAFETY Blood Collection Set + Luer Adapter

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450081V1	● green	21 G	0.75"	thin wall	7.5"	90 / 1,080
450095V1	● green	21 G	0.75"	thin wall	12"	90 / 1,080
450084V1	● blue	23 G	0.75"	thin wall	4"	90 / 1,080
450082V1	● blue	23 G	0.75"	thin wall	7.5"	90 / 1,080
450098V1	● blue	23 G	0.75"	thin wall	12"	90 / 1,080
450099V1	● orange	25 G	0.75"	thin wall	12"	90 / 1,080

SAFETY Blood Collection Set + Holder

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450085V1	● green	21 G	0.75"	thin wall	7.5"	35 / 420
450180V1	● green	21 G	0.75"	thin wall	12"	35 / 420
450086V1	● blue	23 G	0.75"	thin wall	7.5"	35 / 420
450181V1	● blue	23 G	0.75"	thin wall	12"	35 / 420

SAFETY Blood Collection Set + Blood Culture Holder

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450184	● green	21 G	0.75"	thin wall	12"	24 / 240
450185	● blue	23 G	0.75"	thin wall	12"	24 / 240

VACUETTE® EVOPROTECT SAFETY Blood Collection/Infusion Set

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450120	● green	21 G	0.75"	extra thin wall	7.5"	60 / 1,080
450121	● blue	23 G	0.75"	extra thin wall	7.5"	60 / 1,080

VACUETTE® EVOPROTECT SAFETY Blood Collection Set + Luer Adapter

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450127	● green	21 G	0.75"	extra thin wall	7.5"	60 / 1,080
450128	● green	21 G	0.75"	extra thin wall	12"	60 / 1,080
450129	● blue	23 G	0.75"	extra thin wall	7.5"	60 / 1,080
450130	● blue	23 G	0.75"	extra thin wall	12"	60 / 1,080
450132	● orange	25 G	0.75"	thin wall	12"	60 / 1,080

VACUETTE® EVOPROTECT SAFETY Blood Collection Set + Holder

Item no.	Color code	Needle size	Needle length	Needle wall type	Tubing length	Qty. inner / outer
450122	● green	21 G	0.75"	extra thin wall	7.5"	30 / 540
450123	● green	21 G	0.75"	extra thin wall	12"	30 / 540
450125	● blue	23 G	0.75"	extra thin wall	7.5"	30 / 540
450126	● blue	23 G	0.75"	extra thin wall	12"	30 / 540



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