

Vital Signs
A GE Healthcare Company

Arterial Blood Samplers Stick with it ...



Designed with clinicians in mind...

Needle protection... we've got your problem covered!

The Sure-Lok™ needle protection device from Vital Signs cores the bevel and encapsulates the contaminated needle following the draw. This helps to eliminate the risk of blood splatter if the syringe is dropped. Once in the Sure-Lok, no area of the needle is exposed.

Integrated protection

The integral safety clips on the syringe allow for audible and visual confirmation that the needle is secure and cannot be removed from the Sure-Lok.

You'll be seeing red

The Sure-Lok system affords the clinician an unobstructed view of the arterial flash indicating the needle has entered the artery. By using a needle protection device that may obstruct the visibility, the clinician runs the risk of the needle passing through the artery, possibly subjecting the patient to another puncture.

In the way? No way...

The clinician retains the freedom of drawing blood without needle protection devices which may get in the way.



ABG - Accurate Blood Gas - with the patient in mind...

Having blood gases drawn is traumatic to the patient. Vital Signs has taken many steps to help ensure that the first stick is the only stick!

Lyophilized heparin

Focused on preserving the sample integrity, all Vital Signs samplers utilize lyophilized heparin, which reduces the risk of dilution error which may be associated with liquid heparin. Accurate ionized calcium results shouldn't be a balancing act. To help ensure the accuracy of ionized calcium results, Vital Signs uses reduced heparin to compensate for calcium binding. Our Gas Lyte® syringes offer 2.8 units of heparin in the 1 mL size and 7 units in the 3 mL size.

Heparin: How much is enough?

Empirical experience and review has shown that it only takes < 3 units of heparin per 1 mL of blood to adequately stop coagulation for approximately 70 minutes following agitation. All of our ABG products, including our reduced heparin Gas Lyte formulation, exceed this amount.

Air is never a good thing when analyzing blood gases.

Air can compromise the sample, leading to erroneous results. The pre-set plunger (on all syringes except Aspirator) integrates a rear venting system, in which air automatically evacuates out the back of the syringe as the blood fills during the draw.

Because you don't always get what you need...

Short draws happen. When they do, you need an efficient way to remove the air left in the syringe. Coupled with the Sure-Lok needle protection device, the rear venting enables the user to evacuate the air bubbles without passing the bubble through the blood sample. An integral media allows only the air to escape, and then expands and seals when contacted by blood.

Skip the flip!

Other air bubble removal devices require the entire sample be inverted for evacuation. This technique requires the bubble to pass through the blood sample, which may spur smaller bubbles. It may become difficult for the clinician to expel all of the unwanted air. Utilizing the Sure-Lok, the syringe remains in one position and the air does not pass through the blood.

Vital Signs sampler... stick with it!

Micro ABG™

1 mL syringe with 50 units of heparin

Quik ABG™

3 mL syringe with 100 units of heparin

Aspirator ABG™

Needleless syringes available in 1 or 3 mL sizes for use with arterial lines.

Sure-Lok™

One hand activated needle protection device allows the sample and needle to be sealed from the atmosphere while the clinician tends to the patient.

Rear venting feature

When using the Sure-Lok, simply vent remaining air in the syringe by gently pressing the plunger with one finger. No additional filters or other components are required.

Vital Signs, Inc.

One company dedicated to quality and reliability in arterial blood sampling.



Gas Lyte®

Configurations of our Micro, Quik and Aspirator syringes are available in our Gas Lyte reduced heparin formulation. This formula, for use when analyzing electrolytes, has 2.8 units of heparin in the 1 mL syringe, and 7 units in the 3 mL syringes.

Product ordering information

Product Number	Description	UOM
4023LTRU	3 mL luer lock syringe, 23g x 1" needle, 100u heparin, Sure Lok™ needle protection	100
4023TRU	3 mL luer slip syringe, 23g x 1" needle, 100u heparin, Sure Lok needle protection	100
4423LTRU	Full kit-3 mL luer lock syringe, 23g x 1" needle, 100u heparin, Sure Lok needle protection	100
4423TRU	Full kit-3 mL luer slip syringe, 23g x 1" needle, 100u heparin, Sure Lok needle protection	100
9425TRU	Full kit-1 mL luer slip syringe, 25g x 5/8" needle, 50u heparin, Sure Lok needle protection	100
9023TRU	1 mL luer slip syringe, 23g x 1" needle, 50u heparin, Sure Lok needle protection	100
9025RHTR (Gas Lyte)	1 mL luer slip syringe, 25g x 5/8" needle, 2.8u heparin, Sure Lok needle protection	100
601LRH (Gas Lyte)	1 mL luer lock syringe, 2.8u heparin	100
603	3 mL luer slip syringe, 100u heparin	100
650NCGSL (Umbilical Cord kit)	(2) 3 mL luer lock syringes, 22g x 1.5" needle, 100u heparin, (2) patient labels, (2) Sure Lok needle protection	50
4000LRH (GasLyte)	3 mL luer lock venting syringe, 7u heparin	100
4022	3 mL luer slip syringe, 22g x 1" needle, 100u heparin, needle-stopper needle protection (not offered in the United States)	100
4022RH (Gas Lyte)	3 mL luer slip syringe, 22g x 1" needle, 7u heparin, needle-stopper needle protection (not offered in the United States)	100

Note: Full kits include: 2 x 2 gauze pad, alcohol prep pad, povidone-iodine prep pad, patient label, bandage and ice bag.

Additional configurations available. Please contact your local representative for further information.

Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care "Early Health." The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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GE imagination at work

