

smiths medical  
portex®

## Portex® Arterial Blood Sampling Kits

Safe Application. Simple Activation. Consistent Results.



# PORTEX<sup>®</sup> ARTERIAL BLOOD SAMPLING KITS

- Compatible with Multi-parameter Analyzers
- Balanced Heparin Provides Consistent Analytical Results
- One Patient Sample Yields Full Panel of Analyzer Outputs



**SAFE. SIMPLE. CONSISTENT.**

SAFE APPLICATION. SIMPLE ACTIVATION. CONSISTENT RESULTS.



## Pro-Vent® Arterial Blood Sampling Syringe with EDGE™ safety and Filter-Pro® air bubble removal device

Large venting filter media for quick filling to minimize patient discomfort



### ADVANCED FORMULA HEPARIN

- Allows for consistent and accurate analyzer readings while reducing the potential for clots
- Allows for a full range of blood gas, electrolyte and metabolite parameters - all from 1 sample
- Available with either 1 mL Luer slip, 3 mL Luer lock, or 3 mL Luer slip syringes

### PRO-VENT® BLOOD SAMPLING KIT ADVANTAGES

- Vented syringe allows user to preset desired sample volume
- Fully depressed syringe plunger position provides ease of aspiration in code situations
- Positive stop on 3 mL syringe eliminates plunger disengagement
- All Pro-Vent® kits with pre-attached needles are packaged in sterile pouches for use in a sterile field
- A broad choice of configurations including 1 mL or 3 mL syringes, advanced formula dry lithium heparin, Luer slip or Luer lock syringes, and a variety of needle gauges and lengths



## Syringes with Filter-Pro® air bubble removal device

Needleless blood sampling directly from an arterial line



### ADVANCED FORMULA HEPARIN

- Allows for consistent and accurate analyzer readings while reducing the potential for clots
- Allows for a full range of blood gas, electrolyte and metabolite parameters - all from 1 sample
- Available with either 1 mL Luer slip, 3 mL Luer lock, or 3 mL Luer slip syringes

## Pulsator® Plus Arterial Blood Gas Syringes with EDGE™ Safety and Filter-Pro® air bubble removal device

Self filling syringes collect sample via arterial pressure

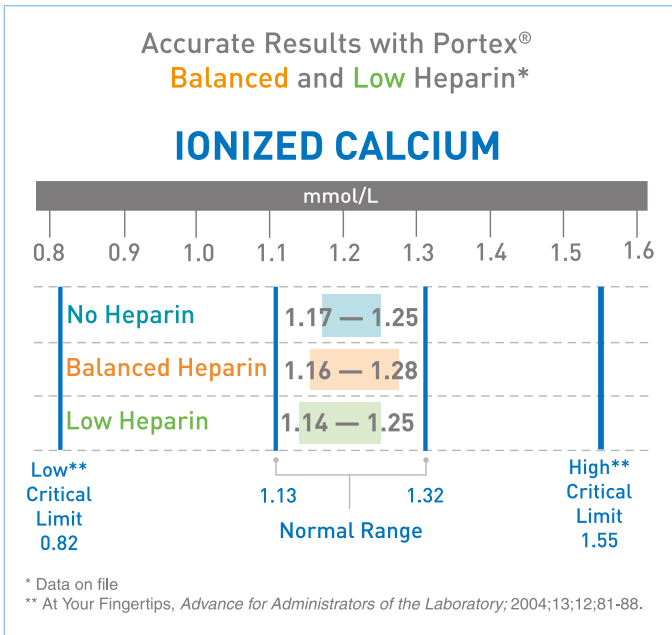


### FILTER-PRO® DEVICE

- Safely expels air bubbles from the sample without exposure to blood or bloodborne pathogens
- Caps blood-filled Luer lock and Luer slip syringes for added safety during transport

# OUR EXCLUSIVE HEPARIN STORY

Heparin is an important and key element of any arterial blood sampling syringe. We have dedicated many years of research to developing a heparin chemistry that makes multiple testing with smaller samples not only feasible, but also more accurate.



The chart illustrates the accuracy of the Portex® arterial blood sampling heparin for determination of ionized calcium using balanced lithium or non-balanced low unit (lithium) heparin as compared to a non-heparinized control syringe.

## SUPERIOR HEPARIN FORMULAS – CATALYSTS FOR THE HIGHEST LEVEL OF PERFORMANCE

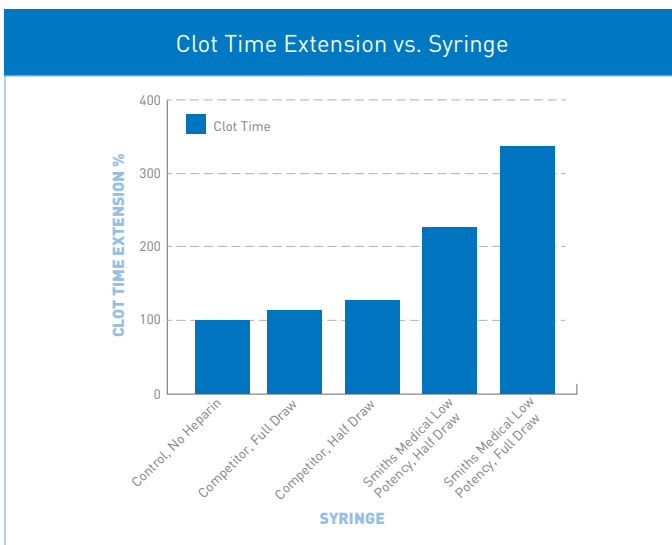
- Combines the necessary anticoagulant effect with heparin (provides minimal interference) for more accurate, more extensive testing from a single sample
- Electrode-friendly so you get higher performance reducing negative impact on analyzers
- Compatible with all commercial blood gas analyzers on the market

## MORE TESTS, MORE INDICATIONS, PRECISE MEASUREMENTS – ALL FROM A SINGLE SAMPLE

In addition to blood gases, our chemistry also allows for as many as eleven (11) distinct parameters that can be routinely tested with a single and much smaller arterial whole blood or serum sample:

- Blood gases: pH, pCO<sub>2</sub>, pO<sub>2</sub>
- CO-Oximetry: tHb, O<sub>2</sub>Sat, COHb, MetHb
- Electrolytes: ionized calcium, ionized and total magnesium, sodium, potassium, chloride
- Metabolites: glucose, lactate

## 3 different types of heparin to meet your specific clinical needs:

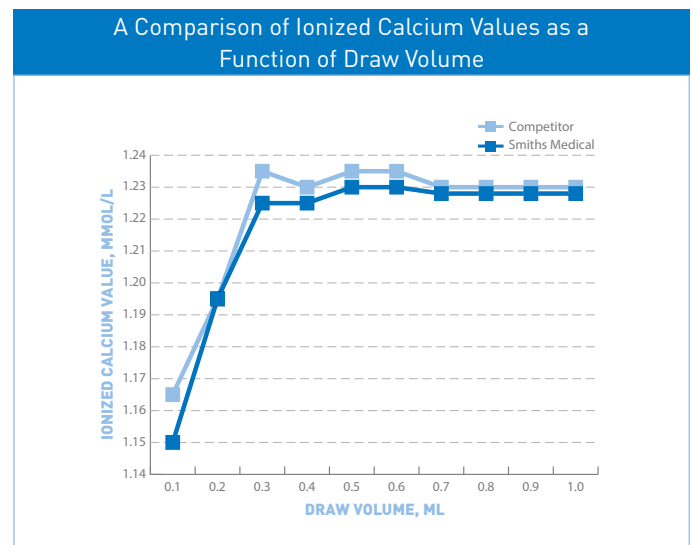


### PORTEX® LOW HEPARIN FORMULA

Our Portex® low potency dry lithium heparin complements our advanced formula dry lithium heparin. This heparin formula is available in selected Pro-Vent®, Pulsator® and Line Draw kits. The low heparin concentration (approximately 7 I.U. per mL) allows the clinician to obtain very small blood samples and still maintain the full range of blood gas, electrolyte, and metabolite test results with reduced heparin interference. All eleven (11) indications remain accurate even with very small blood samples. This is most important in patients with low blood volumes such as critically ill neonates.

### ELECTROLYTE-BALANCED DRY LITHIUM HEPARIN

Provides the necessary anticoagulant effect (approximately 23.5 I.U. per mL) for more accurate measurements of vital respiratory, electrolytic and metabolic parameters.



By prebinding the active sites of the heparin molecule, we ensure that more blood parameters are accessible for measurement. Reduces clotting and dilution problems for blood samples as small as 0.80 mL for a 3 mL syringe and 0.25 mL for a 1 mL syringe. Allows clinicians to obtain the full range of blood gas, electrolyte and metabolite test results from one patient sample.

### ELECTROLYTE-BALANCED LIQUID SODIUM HEPARIN

Offsets both binding and dilution factors by chemically pre-adjusting key electrolytes to normal blood levels, providing consistent and accurate results. Allows clinicians to obtain the full range of blood gas, electrolyte and metabolite test results from one patient sample.

## ORDERING INFORMATION

### ProVent® Plus 1 mL Arterial Blood Sampling Kits

Product Code	Description	Needle	Safety Device	Filter Pro®	Heparin	Units per case
4619PG	1 mL Luer Slip ProVent® Plus	25g x 5/8" (0.5mm x 16mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4629PG	1 mL Luer Slip ProVent® Plus	23g x 1" (0.6mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4616E	1 mL Luer Slip ProVent® Plus	—	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4618PE	1 mL Luer Slip ProVent® Plus	25g x 5/8" (0.5mm x 16mm)	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4628PE	1 mL Luer Slip ProVent® Plus	23g x 1" (0.6mm x 25mm)	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4619LH	1 mL Luer Slip ProVent® Plus	25g x 5/8" (0.5mm x 16mm)	Needle-Pro®	Yes	7 IU/mL dry lithium heparin	200

### ProVent® Plus 3 mL Arterial Blood Sampling Kits

4645PG	3 mL Luer Slip ProVent® Plus	22g x 1" (0.7mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4698PG	3 mL Luer Slip ProVent® Plus	23g x 1" (0.6mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4558PG	3 mL Luer Lock ProVent® Plus	23g x 1" (0.6mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4590PG	3 mL Luer Lock ProVent® Plus	22g x 1" (0.7mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4646E	3 mL Luer Slip ProVent® Plus	—	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4558PE	3 mL Luer Lock ProVent® Plus	23g x 1" (0.6mm x 25mm)	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4648PE	3 mL Luer Slip ProVent® Plus	22g x 1" (0.7mm x 25mm)	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4658PE	3 mL Luer Slip ProVent® Plus	23g x 1" (0.6mm x 25mm)	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200
4698LH	3 mL Luer Slip ProVent® Plus	23g x 1" (0.6mm x 25mm)	Needle-Pro®	Yes	7 IU/mL dry lithium heparin	200

### Dry Pulsator® Plus 3 mL Arterial Blood Sampling Kits

4080PG	3 mL Luer Lock Pulsator® Plus	23g x 1" (0.6mm x 25mm)	EDGE™	Yes	23.5 IU/mL dry lithium balanced heparin	200
4046E	3 mL Luer Lock Pulsator® Plus	—	Disk	Yes	23.5 IU/mL dry lithium balanced heparin	200

### Liquid Pulsator® Plus 3 mL Arterial Blood Sampling Kits

910/400/380G	3 mL Luer Lock Pulsator® Plus	22g x 1" (0.7mm x 25mm)	EDGE™	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/385G	3 mL Luer Slip Pulsator® Plus	22g x 1" (0.7mm x 25mm)	EDGE™	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/340	3 mL Luer Lock Pulsator® Plus	20g x 1 1/2" (0.9mm x 38mm)	Disk	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/360	3 mL Luer Lock Pulsator® Plus	—	Disk	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/365	3 mL Luer Lock Pulsator® Plus	—	Disk	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/380	3 mL Luer Lock Pulsator® Plus	22g x 1 1/2" (0.7mm x 38mm)	Disk	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100
910/400/385	3 mL Luer Lock Pulsator® Plus	22g x 1 1/2" (0.7mm 38mm)	Disk	Yes	31 IU/mL electrolyte balanced liquid sodium heparin	100

### Portex® Line Draw Plus Arterial Blood Sampling Kits

4041E	1 mL Luer Slip Aspirating Syringe	—	—	Yes	23.5 IU/mL dry lithium balanced heparin	200
4042E	3 mL Luer Lock Aspirating Syringe	—	—	Yes	23.5 IU/mL dry lithium balanced heparin	200
4043E	3 mL Luer Slip Aspirating Syringe	—	—	Yes	23.5 IU/mL dry lithium balanced heparin	200
4041LH	1 mL Luer Slip Aspirating Syringe	—	—	Yes	7 IU/mL dry lithium heparin	200
4042LH	3 mL Luer Lock Aspirating Syringe	—	—	Yes	7 IU/mL dry lithium heparin	200

For more information visit our website at [www.smiths-medical.com](http://www.smiths-medical.com)

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