

Microsampling | hemaPEN®

hemaPEN® provides a convenient sampling procedure for collection and storage of four dried blood spot (DBS) samples to drive information-rich decision making.

Unlike conventional DBS sampling tools, hemaPEN enables collection of an accurate and precise fixed micro-volume, and is designed to maintain sample integrity for quantitative analysis.

An easy-to-use sophisticated microsampling tool in the hands of non-analysts.

Features and benefits

- Pen-like design for intuitive use.
- Ability to collect blood from any source.
- Capillary-based technology enables autonomous accurate fixed volume collection.
- Four replicate samples from a single source.
- Eliminates analytically relevant hematocrit bias.
- Single-use and tamper-resistant.
- Contained sample to minimize contamination.
- Consistent sample drying profile.
- Dried format for simplified storage and logistics.
- Samples integrated directly into analytical workflow.
- Sample cartridge compatible with standard 96-/24-well plates.
- 2D barcode and individual device serial number for traceability and chain of custody.
- Space available for customized laboratory labelling.

Recommended applications

- Quantitative analysis
- Small volume sampling
- Frequent sampling
- Remote sampling
- Blood sampling



The hemaPEN® is a device supplied for research purposes only. This device is not for therapeutic or diagnostic use.

Product specifications

hemaPEN functionality remains consistent independent of substrate. Each hemaPEN is identified through a specific model number which references substrate material, volume of capillaries and hemaPEN model type.

Substrate	Volume reference	Model	Model number
D* = 226™	+ 300 = 2.74 µL	+ S = Standard (base model)	= D300S
W† = 903®	+ 300 = 2.74 µL	+ S = Standard (base model)	= W300S

*226™ supplied by PerkinElmer Pty Ltd. 226™ is a trademark of PerkinElmer, Inc or its affiliated entities.

†903® 100% cotton fiber supplied by Eastern Business Forms, Inc. 903® is a registered trademark of Eastern Business Forms, Inc.

Technical data

Product features	
Sample type	Whole blood
Storage format	Dried
Sample volumetric accuracy	2.74 ±0.14 µL
Volumetric precision	CV <2.5% (interdevice)
Number of samples collected	4
Capillary specification	K2 EDTA-coated borosilicate Type 1 USP
Substrate dimensions	3.5 mm diameter
Substrate	226™ supplied by Perkin Elmer Pty Ltd, or 903® supplied by Eastern Business Forms, Inc.
Shelf life	One year
Material and colors	
Product color	White main body, a clear plastic tip and base and a green indicator stripe
Packaging	
Units/pack	Provided as a single unit per pack
Pack dimensions	160 mm x 230 mm x 50 mm

For more information about this product visit www.hemapen.com or contact techsupport@trajanscimed.com

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Intended use	hemaPEN® is intended for the collection of fixed micro-volume blood and storage in a dried format (dried blood spot (DBS)).
Product	The hemaPEN is a robust handheld device supplied as a non-sterile, single-use unit, designed to collect from a single source, four accurate and precise fixed micro-volume of blood, and transfer to four 3.5 mm paper discs (substrate). Samples are contained within the hemaPEN's tamper-resistant housing, the integrated desiccant enables a consistent sample drying profile, and the dried sample format enables simplified storage and logistics. The entire collected sample goes directly into analytical workflow effectively eliminating the volumetric aspect of hematocrit bias inherent with conventional DBS cards.
Precautions	<ul style="list-style-type: none"> • Follow instructions for use. • For use by research personnel and healthcare professionals. • Single use only – do not reuse. • Contains glass capillaries. Do not use if the capillaries are broken. • Use the hemaPEN device within 30 minutes once removed from the packaging. • hemaPEN performance may be impaired when collecting blood with hematocrit >55%.
Storage instructions	<ul style="list-style-type: none"> • Store the devices in original packaging at room temperature, in a dry area. • Avoid direct sunlight exposure. • After use, store the hemaPEN device sealed in original packaging. Store or transport product at room temperature.
Quality Management System	hemaPEN is assembled in Trajan Scientific Australia Pty Ltd's ISO 9001 certified Australian site.

Technical data	
Product features	
Sample type	Whole blood
Storage format	Dried
Sample volumetric accuracy	2.74 ±5% µL
Volumetric precision	CV <2.5% (interdevice)
Number of samples collected	4
Capillary specification	K2 EDTA-coated borosilicate Type 1 USP
Substrate dimensions	3.5 mm diameter
Substrate	226™ supplied by PerkinElmer Pty Ltd, or 903® supplied by Eastern Business Forms, Inc.
Shelf life	One year
Material and colors	
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Packaging	
Units/pack	Provided as a single unit per pack
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Part number	Model number	Substrate
498100001	D300S	226™ supplied by PerkinElmer Pty Ltd*
498100011	W300S	903® 100% cotton fiber supplied by Eastern Business Forms, Inc.†

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