

# Blood collection systems for pediatrics



Pre-analytics

# Pediatrics

Gentle, conservative blood collection is required for children, our most sensitive patient group

## Our smallest patients

The demands placed on blood collection systems in this particular group are quite unique. Considering these requirements, we developed pediatric-specific collection systems that make the process of collecting blood from our smallest patients as gentle and painless as possible.

Our primary concern is to minimize the filling volume of each collection in order to keep the diagnostic blood loss as low as possible. Our extensive product portfolio of capillary and venous blood collection systems enable the best possible equipment decisions.



Neonates



Infants & Toddlers



Children



Find the right  
S-Monovette® for your  
use:

[sarstedt.com/  
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## Solutions for every age group







# Neonatology – neonates

Minimal sample volumes for our smallest patients

## Micro Needle & micro sample tubes

The Micro Needle was developed to meet the specific needs of neonatology and has a grooved holder that ensures optimum and safe puncture. It is available in three different diameters. The short design of the needle means a minimal dead volume during sample collection. Safe puncture aside, the Micro Needle holder allows you to turn the needle in the vein for

better positioning. Suitable micro sample tubes with a screw top or push cap and Microvettes for very small samples are available in a range of preparations.

The nominal volume ranges from 100 µl to 1.3 ml, depending on the type of container and preparation.

## Safety-Heel®

Metabolic diseases and endocrinopathies should be detected as early as possible in newborns so that the correct treatment can begin and be effective.

A newborn screening blood collection has to be performed to do this, usually by puncturing the baby's heel. Puncture with conventional lancets is vertical, however, so the risk of injury

(i.e. cutting several layers of skin right through to the bone) and hematoma is very high.

By making semi-circular incisions and shallower cuts, the Safety-Heel® counteracts the formation of hematoma, ensuring that the screening is a much less painful experience for your little patient.



Micro Needle, micro sample tubes & Safety Heel®

## Simple use



The Micro Needle's grooved holder ensures safe and easy puncture, while a suitable micro tube is available for collection.

Safety-Heel®. Gentle heel incisions



# Babies – infants

## Capillary blood collection for infants

### Safety lancet & Microvette®

Depending on the requirements, Microvette® tubes with a cylindrical or conical inner tube shape and a volume range of 100 to 500 µl are available. Collect capillary blood using an 'end-to-end' capillary or the collection rim.

Safety lancet options provide a range of incision depths and blood volumes depending on the different anatomies of the little patients.





Microvette®, Microvette® APT & Safety-Lancet

## Puncture options with the Safety-Lancet



## Microvette® – Greater flexibility thanks to two collection techniques



Microvette® 100/200 – blood collection with end-to-end capillary



Microvette® 300/500 – blood collection with collection rim



# Toddler – child

Venous blood collection with minimal sample volume

## **Safety-Multifly® Needle & S-Monovette®**

The sensitivity of today's analyzers makes it possible to reduce the sample volume required to conduct comprehensive routine investigations. Thanks to its special design, with smaller dimensions and a lower nominal volume, the S-Monovette®

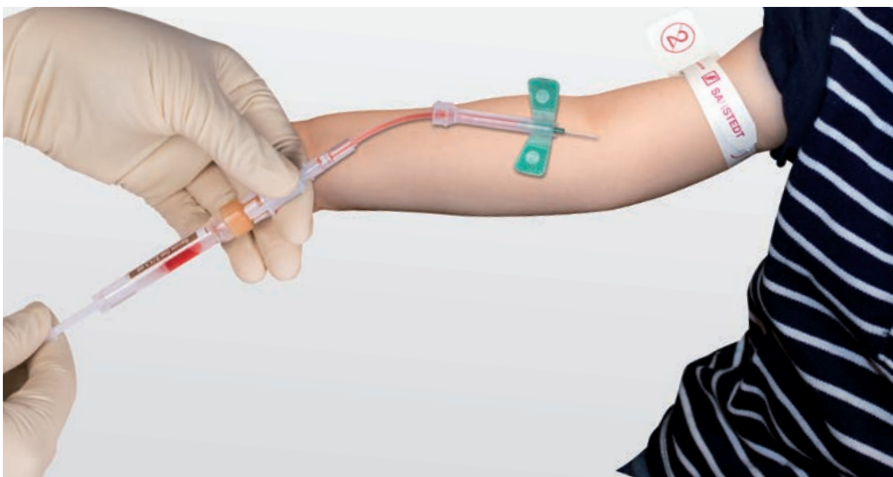
meets stringent pediatric requirements. Thanks to its option for gentle blood collection using the aspiration technique, the S-Monovette® is the ideal solution for difficult vein conditions in pediatrics.






Safety-Multifly® Needle & S-Monovette®

## Safety and comfort for patient and user




## S-Monovette® and Safety-Multifly® needles


### Serum Gel CAT

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.1 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1667.001		


### Serum CAT

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.6 ml	75/91 x 13 mm	■	50 / 50 / 500		04.2911.200	
	1.2 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1663.100		


### Lithium Heparin Gel LH

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.1 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1669.100		


### Lithium Heparin LH

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.6 ml	75/91 x 13 mm	■	50 / 50 / 500		04.2913.200	
	1.2 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1666.100		


### Citrate 9NC, 3.2%

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.8 ml	75/91 x 13 mm	■	50 / 50 / 500	04.1955.100	04.1955.200	04.1955.288
	1.4 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1668.100		




### EDTA K3E

Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.8 ml	65/81 x 13 mm	■	50 / 50 / 500	04.1951.100		04.1951.288
	1.6 ml	75/91 x 13 mm	■	50 / 50 / 500	04.1956.100		
	1.6 ml	66/82 x 11 mm	■	50 / 50 / 500	05.1081.100	05.1081.200	
	1.2 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1664.100		

### Fluoride EDTA FE


Preparation	Nominal volume	Length without/with cap x Ø	Cap color	Packaging (SP/IB/OC)	Order no. with colored paper label	Order no. with plastic label	Order no. with pre-barcoded label
	1.2 ml	66/82 x 8 mm	■	50 / 50 / 500	06.1665.100		

### Safety-Multifly® needle for S-Monovette®

Illustration	Ø/Length	Color code	Description	Tube length	Packaging (SP/IB/OC)	MOQ	Order no.
	0.8 mm / 19 mm	■	21G x 3/4" Multi-adapter	80 mm	1 / 120 / 480	480	85.1638.205
	0.6 mm / 19 mm	■	23G x 3/4" Multi-adapter	80 mm	1 / 120 / 480	480	85.1640.205
	0.5 mm / 19 mm	■	25G x 3/4" Multi-adapter	80 mm	1 / 120 / 480	480	85.1642.205


## Micro sample tubes and Micro Needles

### Prepared micro sample tube with attached push cap and transparent label




Illustration	Preparation	Nominal volume	Ø/Length	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	1.3 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1501.105*
	Serum Gel CAT	1.1 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1500.005*
	Lithium Heparin LH	1.3 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1503.105*
	EDTA K3E	1.3 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1504.105*
	Fluorid Heparin FH	1.3 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1505.105*
	Citrate 9NC 3.2%	1.3 ml 1.0 ml 0.5 ml	10.8 mm/40 mm	■	100 / 100 / 1,000	1,000	41.1506.105 41.1506.100 41.1506.102

\* Also available with paper label

### Prepared micro sample tube with screw cap and paper label

Illustration	Preparation	Nominal volume	Ø/Length	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	1.3 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1392.105
	Serum Gel CAT	1.1 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1378.005
	Lithium Heparin LH	1.3 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1393.105
	EDTA K3E	1.3 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1395.105 41.3395.105
	Fluorid Heparin FH	1.3 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1394.105
	Citrat 9NC 3.2%	1.3 ml	10.8 mm/45 mm	■	100 / 100 / 1,000	1,000	41.1350.105



### Micro Needle

Illustration	Ø/Length	Color code	Description	Packaging (SP/IB/OC)	MOQ	Order no.
	0.8 mm/36 mm	■	21 G x ¾"	1 / 50 / 500	50	85.921
	0.6 mm/36 mm	■	23 G x ¾"	1 / 50 / 500	50	85.923
	0.5 mm/36 mm	■	25 G x ¾"	1 / 50 / 500	50	85.925





## Microvette® APT, Microvette® 100 / 200


### Microvette® APT with round bottom inner tub

Illustration	Preparation	Nominal volume	Length/∅	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	EDTA K2E	250 µl	75 mm x 13 mm	■	50 / 50 / 500	500	20.1331.100
	EDTA K2E	500 µl	75 mm x 13 mm	■	100 / 100 / 500	500	20.1330.100




### Microvette® 100 with conical inner tube

Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	100 µl	■	100 / 100 / 1,000	1,000	20.1280.100
	Lithium Heparin LH	100 µl	■	100 / 100 / 500	500	20.1282.100



### Microvette® 100 with round bottom inner tube

Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	EDTA K3E	100 µl	■	100 / 100 / 1,000	1,000	20.1278.100

### Microvette® 200 with conical inner tube




Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	200 µl	■	100 / 100 / 1,000	1,000	20.1290.100
	Lithium Heparin LH	200 µl	■	100 / 100 / 1,000	1,000	20.1292.100
	Fluoride Heparin FH	200 µl	■	100 / 100 / 1,000	1,000	20.1289.100

### Microvette® 200 with round bottom inner tube






Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum Gel CAT	200 µl	■	100 / 100 / 1,000	1,000	20.1291
	EDTA K3E	200 µl	■	100 / 100 / 1,000	1,000	20.1288.100

## Microvette® 300 / 500 and Lancets




### Microvette® 300 with conical inner tube

Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	300 µl	■	100 / 100 / 1,000	1,000	20.1308.100
	Lithium Heparin LH	300 µl	■	100 / 100 / 1,000	1,000	20.1309.100
	Fluoride Heparin FH	300 µl	■	100 / 100 / 1,000	1,000	20.1307.100


### Microvette® 500 with round bottom inner tube

Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Serum CAT	500 µl	■	100 / 100 / 1,000	1,000	20.1343.100
	Serum Gel CAT	500 µl	■	100 / 100 / 1,000	1,000	20.1344
	Lithium Heparin LH	500 µl	■	100 / 100 / 1,000	1,000	20.1345.100
	Lithium Heparin LH	500 µl	■	100 / 100 / 1,000	1,000	20.1346.100
	EDTA K3E	500 µl	■	100 / 100 / 1,000	1,000	20.1341.102

### Safety Lancet


Illustration	Preparation	Needle size/ Incision length	Penetration depth	Color code	Packaging (SP/IB/OC)	MOQ	Order no.
	Safety Lancet Mini	28 G	1.6 mm	■	200 / 200 / 1,200	1,200	85.1015
	Safety Lancet Neonatal	Blade 1.5 mm	1.2 mm	■	200 / 200 / 1,200	1,200	85.1019
	Safety Lancet Super	Blade 1.5 mm	1.6 mm	■	200 / 200 / 1,200	1,200	85.1018

### Incision lancet - Safety-Heel®


Illustration	Preparation	Incision length	Penetration depth	Color code	Packaging (SP/IB/OC)	MOQ	Order no.
	Preemie	1.75 mm	0.85 mm	■	50 / 50 / 200	200	85.1025
	Newborn	2.5 mm	1.0 mm	■	50 / 50 / 200	200	85.1026

## Microvette® CB 200 ESR, Urine Monovette® and Carrier Tubes











### Microvette® CB 200 ESR

Illustration	Preparation	Nominal volume	Cap color	Packaging (SP/IB/OC)	MOQ	Order no.
	Citrate	200 µl	■	50 / 50 / 500	500	18.1325.100

### Urine Monovette®

Illustration	Volumen	Tube length/Ø	Design	Packaging (IB/OC)	MOQ	Order no.
	3.2 ml	75 / 13 mm	with paper label, incl. suction tip	512/1	512	10.250.001

### Carrier Tubes for Pediatric S-Monovette®, micro sample tubes and Microvette® and Multivette® 600

Illustration	Suitable for	Length x Ø	Base shape	Color	Packaging (SP/IB/OC)	SP	MOQ	Order no.
	S-Monovette® with Ø 8 mm	54 x 11 mm	flat base	☒	250 / 250 / 1,000		1,000	55.1570
	S-Monovette® with Ø 8 mm	54 x 11 mm	flat base	■	250 / 250 / 1,000		1,000	55.1570.002
	S-Monovette® with Ø 8 mm, Microvette® and micro tubes	65 x 13 mm	round base	☒	250 / 250 / 1,000		1,000	55.1571
	S-Monovette® with Ø 8 mm, Microvette® and micro tubes	65 x 13 mm	round base	■	250 / 250 / 1,000		1,000	55.1571.051
	S-Monovette® with Ø 8 mm	55 x 13 mm	round base	☒	250 / 250 / 1,000		1,000	55.1572
	Microvette® and micro tube with screw cap	75 x 13 mm	round base	■	250 / 250 / 2,000		2,000	55.525.302
	Microvette® and micro tube with screw cap	75 x 13 mm	round base	☒	250 / 250 / 2,000		2,000	55.525.003
	Multivette® 600	60 x 11.5 mm	flat base	☒	250 / 250 / 1,000		1,000	55.1577
	Multivette® 600	60 x 11.5 mm	flat base	■	250 / 250 / 1,000		1,000	55.1577.002



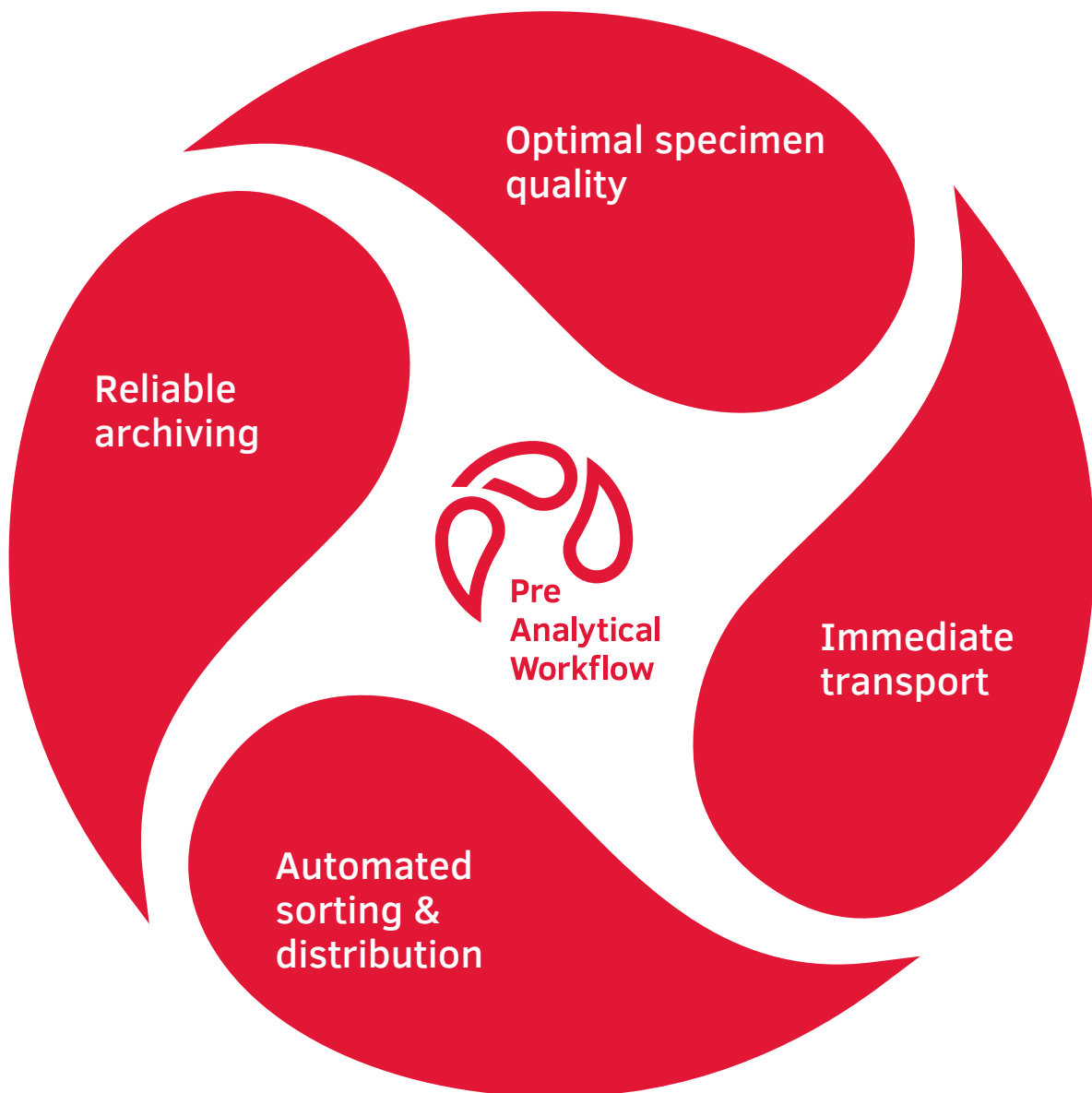
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