

# Blood collection systems

for pediatrics



# Pediatrics

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



Neonates

## Our smallest patients

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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. An extensive product portfolio provides numerous capillary and venous blood collection choices enabling appropriate equipment decisions.



Infants & Toddlers

Children

Solutions for every age group



# Neonatology – neonates

Minimal sample volumes for our smallest patients



## Micro-Needle & micro sample tubes

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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 cannula means a minimal dead volume during sample collection. Safe puncture aside, the Micro-Needle holder allows you to turn the cannula in the vein. As such, it is easy to remove any blockage at the cannula bevel.

Suitable micro sample tubes with a screw top or cap and Microvettes for very small samples are available in various different preparations. The nominal volume ranges from 100 µl to 1.3 ml, depending on the type of container and preparation.

## Safety-Heel®

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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

A 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®

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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. The Microvettes can also be used for collection with open venous blood collection methods.

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



# Microvette®, Safety-Lancet & Microvette® APT



Microvette® – One product, three uses

The Microvette® makes it possible to collect blood with the end-to-end capillary, the collection rim or from open venous blood collection devices.



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



Microvette® 300/500 – blood collection with collection rim



Microvette® with Micro-Needle

Different puncture options with the Safety-Lancet



# Toddler – child

Venous blood collection  
with minimal sample volume



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

The sensitivity of modern analysis systems 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.



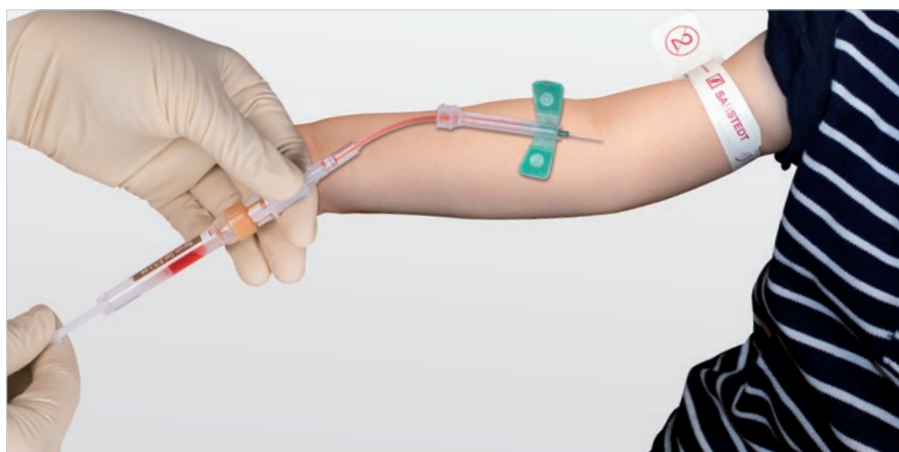





# S-Monovette® & Safety- Multifly®-Needle



Safety and comfort for patient and user



## S-Monovette® & Microvette® (incl. suitable carrier tubes)

	Serum	Serum gel	Lithium heparin	Lithium heparin gel	EDTA	Fluoride	Citrate coagulation	Blood sedimentation
<b>S-Monovette®</b> 1.1 / 1.2 ml 8 mm Ø <sub>1,3</sub>	06.1663.100	06.1667.001	06.1666.100	06.1669.100	06.1664.100	06.1665.100	06.1668.100	05.1079.100*
<b>Microvette®</b> 500 µl <sub>1,2</sub>	20.1343.100	20.1344	20.1345.100	20.1346.100	20.1341.102			
<b>Microvette®</b> 300 µl <sub>1,2</sub>	20.1308.100		20.1309.100			20.1307.100		
<b>Microvette®</b> 200 µl <sub>1,2</sub>	20.1290.100	20.1291	20.1292.100		20.1288.100	20.1289.100		
<b>Microvette®</b> 100 µl <sub>1,2</sub>	20.1280.100		20.1282.100		20.1278.100			


\* S-Monovette® 2 ml, 66 x 11 mm Ø

<sup>1</sup> suitable for carrier tubes 75 x 13, Order No. 55.1571


<sup>2</sup> suitable for carrier tubes 75 x 13, Order No. 55.525.302

<sup>3</sup> suitable for carrier tubes 65 x 13, Order No. 55.1572

## Micro sample tubes

	Serum	Serum gel	Lithium heparin	EDTA	Fluoride	Citrate coagulation
<b>Micro sample tubes</b> 1.3 ml with cap	41.1501.105	41.1500.005	41.1503.105	41.1504.105	41.1505.105	41.1506.105
<b>Micro sample tubes</b> 1.0 ml with cap						41.1506.100
<b>Micro sample tubes</b> 0.5 ml with cap						41.1506.102
<b>Micro sample tubes</b> 1.3 ml with screw cap	41.1392.105		41.1393.105	41.1395.105	41.1394.105	41.1350.105
<b>Micro sample tubes</b> 1.3 ml with membrane screw cap				41.3395.105		
<b>Micro sample tubes</b> 1.1 ml with screw cap		41.1378.005				

## Micro-Needle, Safety-Lancet, Safety-Heel® Incision Lancet, Safety-Multifly®-Needle

							
	21 G	23 G	25 G	28 G	Blade 1.5 straight	Blade 1.75 incision	Blade 2.5 incision
Micro-Needle	85.921	85.923	85.925				
Safety-Lancet				85.1015	85.1019		
Safety-Heel® Incision Lancet						85.1023	85.1022
Safety-Multifly®- Needle	85.1638.205	85.1640.205	85.1642.205				

Also available for pediatric patients:  
Urine-Monovette®

Order No.	Volume in ml	Tube length / Ø in mm	Design	Packaging unit/case
10.250.001	3.2	75/13	with paper label, incl. suction tip	512



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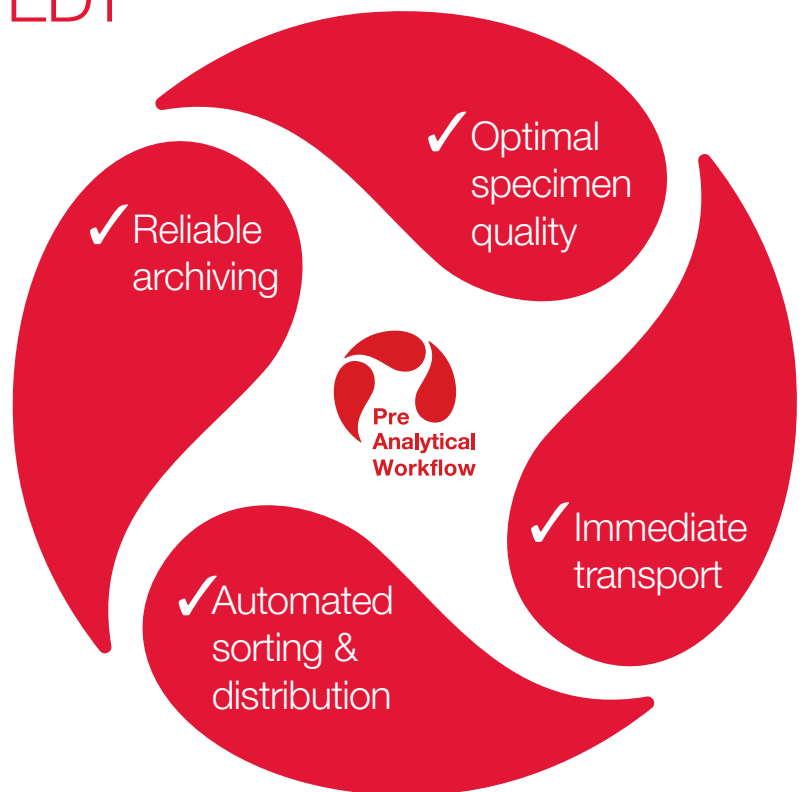
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If you have any questions,  
we'll be happy to help!



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