

# S-Monovette®

The sustainable blood  
collection system



**40%**

CO<sub>2</sub>e reduction\*

**32%**

less material used\*

\* Compared to vacuum systems



**SARSTEDT**



# Reduce CO<sub>2</sub>e\* with the S-Monovette®!

Compared to vacuum systems, if you take 200 blood samples a day each year, you'll save as much CO<sub>2</sub>e as 116 trees\*\*.



## Advantages of the S-Monovette® compared to vacuum systems

Our contribution towards greater ecological sustainability for every blood collection.

The CO<sub>2</sub>e and material reduction were recorded by evaluating the weight and the materials used. To compare blood collection systems, three S-Monovettes were compared with three vacuum tubes, including their associated needles.

The result of this examination clearly highlights the ecological advantages of using the S-Monovette® blood collection system:

- 40% less CO<sub>2</sub>e per blood sample
- 32% less material used compared to vacuum systems
- 93% less rubber with the S-Monovette® cap
- 10% lower emissions by using PP instead of PET
- 100% certified green energy used during production

Our contribution towards greater ecological sustainability in clinics, practices and laboratories.



## Comparison of yearly savings

Blood collection per day	Blood collection per year	Material reduction [kg]	CO <sub>2</sub> e reduction [%]	CO <sub>2</sub> reduction in number of trees
100	36,500	329	40%	58
200	73,000	657	40%	116
500	182,500	1,643	40%	290
1,000	365,000	3,285	40%	580

\* To compare different greenhouse gasses, these are converted according to their global warming potential into CO<sub>2</sub> equivalent (CO<sub>2</sub>e). (German Environment Agency [Umweltbundesamt], 2023. CO<sub>2</sub> equivalent)

\*\* 22 kg CO<sub>2</sub> / tree / year (European Environment Agency (EEA), 2021. Forests, health and climate change)

We are happy to share the bases for our calculation with you. Contact us!

The SARSTEDT principle is to minimise the use of raw materials for both the product and the packaging components of the S-Monovette®. **The “Guidelines for Green & Sustainable Laboratories”** of the EFLM\*\*\* Task Force Green Labs describe the requirements for plastics and packaging in section 5.2.1.1.

Medical laboratories can become certified as a Green Lab, and SARSTEDT supports this by providing product and packaging components that save resources!

More information about Green Lab can be found at [greenlabs.eflm.eu](https://greenlabs.eflm.eu)



\*\*\* European Federation of Clinical Chemistry and Laboratory Medicine

## Working together for more sustainability and environmental protection

The world, and thus also our global community, are on the cusp of a major change. Climate change will continue to be a factor in the future and impact our day-to-day lives in a variety of ways. As a result, it is essential to develop environmentally friendly and ecological technologies and implement them wherever possible.

As a family-owned plastics processing company, we believe it is important to look beyond our business goals and take particular responsibility for future generations. There is currently no alternative to using non-recycled polymers in plastic injection moulding to produce our high-quality medical devices and laboratory products, as our customers around the world rely

on the highest grades of purity and safety certifications to ensure optimal patient care and compliance with the stringent requirements for laboratory work. However, we aspire to live, promote and consistently expand sustainability.



Learn more about SARSTEDT

[www.sarstedt.com/en/the-company/about-us/about-us](http://www.sarstedt.com/en/the-company/about-us/about-us)

## Today and in the future

SARSTEDT is committed to ecological sustainability and environmental protection for present and future generations



### We are certified

Our sites in Oberberg, Hemer and Rheinbach are managed according to a recognised company environmental management system in line with the ISO 14001 certification. Sustainability no longer applies only to the products themselves, but also the way in which they are produced. That is why we act in an environmentally conscious manner along our entire value chain.



### CO<sub>2</sub> reduction

One of our primary goals is total carbon neutrality with regard to the use of fuels, propellants and electricity. We already use carbon-neutral green energy in all our sites in Germany. We are thus continuing to implement the expansion of our green energy supply to all sites worldwide.



### We recycle

As a plastics processing company, recycling is a core issue for us. Even if there is still no alternative to using virgin plastic in many areas of the medical and laboratory sectors, we rely on recycling products and materials wherever possible.



### We rely on renewable energy

The goal of our sustainability strategy is to progressively expand the use of renewable energy. By consistently using regenerative energy, e.g. with photovoltaic systems on the rooftops of our production halls, we make a significant contribution to sustainability.



### We practice sustainable development

As part of our product development process, we focus on sustainable materials management. With our revolutionary boxing and refilling concept for pipette tips, we offer an innovative solution for sustainable laboratory work. 70% less storage space. 64% less material.



### We initiate environmental projects

With a variety of nature restoration projects, we ensure biodiversity, species conservation and the conversion of CO<sub>2</sub> into oxygen.



We look forward to hearing from you via  
[www.sarstedt.com/en/contact](http://www.sarstedt.com/en/contact)

# Pre-analytical workflow made by SARSTEDT

Utilise the synergy of our coordinated systems.

Discover the 360° solutions for your pre-analytics from SARSTEDT



[workflow.sarstedt.com](http://workflow.sarstedt.com)

