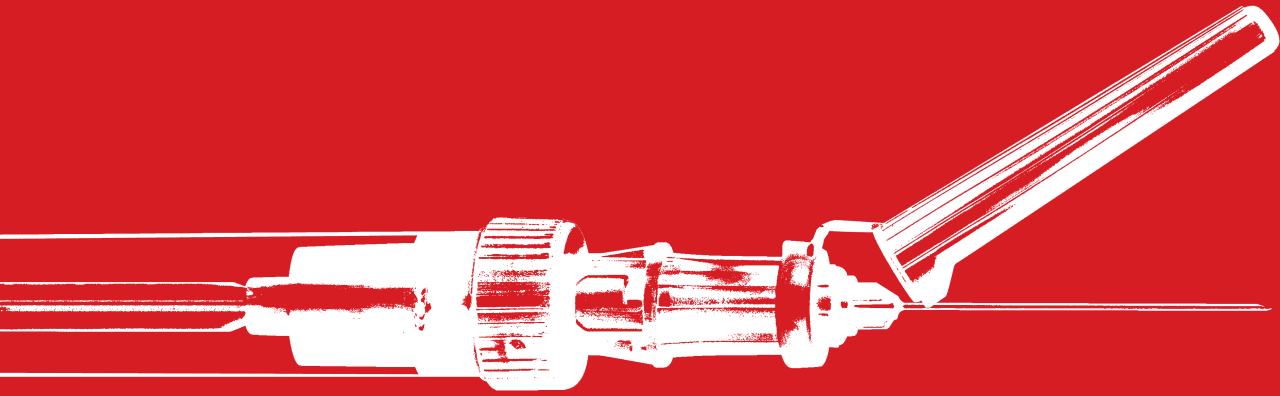




# SARSTEDT



Catalogue 2023

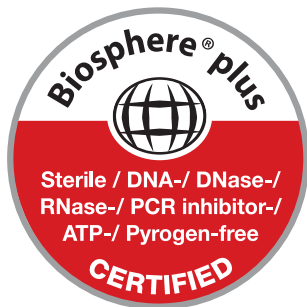
# Your partner in medicine and science worldwide

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## Guaranteed reliability and reproducibility

Cleanroom conditions, skilled personnel wearing protective clothing and automated production processes are the prerequisites for the certified SARSTEDT PCR Performance Tested and Biosphere® plus quality standards.

Since 1995, we have provided our customers with a level of product quality that is tailored to their applications to ensure maximum reproducibility in their analyses. Our certifications are continuously adjusted to the current state of research, so that we can offer the user the required level of reliability in their routine work at all times.



### Biosphere® plus

In recent years, scientific analysis methods have been continuously refined to the point where even individual molecules can be detected. This increased sensitivity means that consumables are required to meet significantly more exacting requirements compared with just a few years ago, so that users can be certain that even the smallest contamination will be reliably excluded.

The newly developed Biosphere® plus quality achieves a purity standard that gives users the utmost protection against any possible contamination.

In addition to the high-purity production conditions, all Biosphere® plus certified products undergo a validated decontamination process. The limits are thus significantly lower than those of the PCR Performance Tested quality. The following purity criteria are certified by an independent laboratory:

- ✓ **Sterile**  
Based on ISO 11135
- ✓ **DNA-free**  
Human DNA <5.0 fg/µl, bacterial DNA <0.2 fg/µl
- ✓ **DNase/RNase-free**  
DNase <5x10<sup>-7</sup> U/µl, RNase <5x10<sup>-11</sup> Kunitz units/µl
- ✓ **PCR inhibitor-free**  
<0.5 cycles C<sub>t</sub> value shift
- ✓ **ATP-free**  
<1x10<sup>-12</sup> mmol/µl
- ✓ **Non-pyrogenic/endotoxin-free**  
<0.002 EU/ml



### PCR Performance Tested

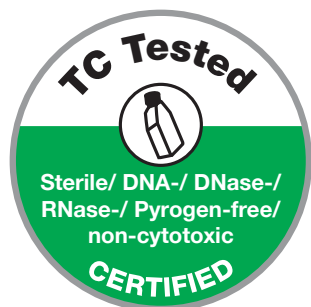
PCR Performance Tested was specially tailored to the demands and requirements of work with nucleic acids (e.g. qPCR, PCR, purification and storage). This quality grade allows customers to safely use SARSTEDT consumables directly in nucleic acid analysis. The following purity criteria are certified by an independent laboratory:

- ✓ **DNA-free**  
Human DNA <0.5 pg/µl, bacterial DNA <0.02 pg/µl
- ✓ **DNase/RNase-free**  
DNase <1x10<sup>-5</sup> U/µl, RNase <1x10<sup>-9</sup> Kunitz units/µl
- ✓ **PCR inhibitor-free**  
<0.5 cycles C<sub>t</sub> value shift

Cell and tissue cultures today are used not only in basic research, but more and more in applied biotechnology and clinical and pharmaceutical research, as well.

Toxicity tests, quality controls of biochemical processes, industrial production systems (e.g. production of monoclonal antibodies) etc. require products of the highest purity and quality. A basic requirement for comparable and reproducible experiments is compliance with the quality standards for cell and tissue cultures.

To meet these demands, SARSTEDT has been producing a wide product range of certified consumables for work with cell and tissue cultures for over 25 years.



## TC Tested

Since 1990, SARSTEDT has offered its customers high-quality cell culture products made under cleanroom conditions by trained personnel in protective clothing and using automated production processes.

In accordance with our basic principle that the products that come into contact with cells must not have a disruptive effect on the cells, these products are made under the strictest cleanroom conditions and are labelled with the "TC Tested" quality logo. The following purity criteria are certified by an independent laboratory:

- ✓ **Sterile**  
Based on ISO 11137
- ✓ **Pyrogen-free/endotoxin-free**  
<0.06 EU/ml
- ✓ **Non-cytotoxic**  
In compliance with ISO 10993-5
- ✓ **DNA-free**  
Human DNA <0.5 pg/μl, bacterial DNA <0.02 pg/μl
- ✓ **DNase/RNase-free**  
DNase <7.1 · 10<sup>-5</sup> U/μl, RNase <1.4x10<sup>-10</sup> Kunitz units/μl



## Cryo Performance Tested

Cell and tissue samples must not be exposed to additional risks regarding contamination with interfering substances during "vital" preservation in CryoPure tubes. The following purity criteria are certified by an independent laboratory:

- ✓ **Sterile**  
Based on ISO 11137
- ✓ **Pyrogen-free/endotoxin-free**  
<0.06 EU/ml
- ✓ **Non-cytotoxic**  
In compliance with ISO 10993-5
- ✓ **Non-mutagenic**  
Proof of assessment of mutagen-free status was conducted according to Ames Test II
- ✓ **DNA-free**  
Human DNA <0.5 pg/μl, bacterial DNA <0.02 pg/μl
- ✓ **DNase/RNase-free**  
DNase <1x10<sup>-5</sup> U/μl, RNase <1x10<sup>-9</sup> Kunitz units/μl
- ✓ **IVD** **CE**