	<b>Technical Data Sheet</b>	Ref: TDS-014
	<b>Porcine Serum</b>	Rev: 1

**PRODUCT DESCRIPTION**

Biowest USA Porcine Serum is a high-quality, aseptically collected serum derived from clotted whole blood of healthy pigs. It is sourced in the United States and processed under stringent quality control measures to ensure consistency, purity, and traceability. This serum is designed to support the growth and maintenance of various cell types in vitro, providing essential nutrients, growth factors, and hormones.

**COUNTRY OF ORIGIN**

The Biowest USA Porcine Serum is sourced from the United States, adhering to strict animal health and safety protocols.

Catalog Number	Description	Origin(s)
<b>S2400</b>	Porcine Serum	United States

**INTENDED USE**

Biowest USA Porcine Serum is intended for use in in vitro cell culture, research, and diagnostic applications. It is not for human or animal consumption and is not intended as an Active Pharmaceutical Ingredient (API). This product is for research and laboratory use only.

**COLLECTION SOURCE**

Porcine Serum is obtained from clotted whole blood and aseptically collected from healthy pigs. The collection and processing follow rigorous quality control procedures and are conducted in compliance with USDA regulations to ensure the safety, quality, and traceability of the product.

**QUALITY CONTROL PARAMETERS**

1.1	pH: monitored and reported for each batch, with specifications provided in the Certificate of Analysis (CoA).
1.2	Osmolality: determined by the lowering of the freezing temperature, calibrated against standard solutions. Osmolality specifications are provided in the Certificate of Analysis.
1.3	Endotoxin: tested using USP 85 Photometric Quantitative Techniques. Test results are reported in the Certificate of Analysis.
1.4	Hemoglobin: measured by spectrophotometry. Results are provided in the Certificate of Analysis.
1.5	Total Protein: determined using a colorimetric assay. Results are reported in the Certificate of Analysis.
1.6	Sterility Testing: tested for the absence of aerobic and anaerobic bacteria, fungi, and yeast in compliance with 9CFR regulations.
1.7	Mycoplasma: tested via culture-based methods or PCR (Polymerase Chain Reaction), depending on customer requirements. Tested for the absence of Mycoplasma.
1.8	Virus Testing: Not Applicable
1.9	Other Testing: Additional testing may be available upon request.


**FILTRATION**

Final Filter Size: 0.2µm

**TREATMENT PROCESS-Heat Inactivation (Optional)**

Heat inactivation deactivates certain serum components that can interfere with cell culture. This process involves heating the serum to 56°C for 30 minutes. Heat treatment can affect serum proteins, which influence the performance of the serum in certain applications.

Heat-inactivated serum meets the same quality standards as non-heat-treated serum. The process is carefully controlled to preserve the serum's essential nutrients and growth factors. A color change in

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<p>the serum, which typically ranges from a yellowish to an opaque appearance, will occur. Color change does not indicate a loss of quality or effectiveness.</p> <p><b>Note: Heat inactivation is an optional service that must be specifically requested when ordering. Before using it, be sure to verify whether it is suitable for your particular cell culture requirements.</b></p>	
<b>STORAGE CONDITIONS</b>	
Store at $\leq -10^{\circ}\text{C}$ , protected from light to maintain the serum's integrity.	
<b>SHELF LIFE</b>	
5 years from the date of manufacture when stored under the recommended conditions.	
<b>HANDLING INSTRUCTIONS</b>	
2.1	Thawing: Thaw the serum in a refrigerator ( $2^{\circ}\text{C}$ to $8^{\circ}\text{C}$ ) or at room temperature. Avoid rapid thawing methods to preserve protein integrity.
2.2	Aliquoting: For optimal preservation, aliquot the serum after thawing using aseptic techniques.
2.3	Storage after Thawing: If not all serum is used, thawed serum may be stored at $2^{\circ}\text{C}$ to $8^{\circ}\text{C}$ for up to 26 weeks without significant loss in quality, provided sterility is maintained.
2.4	Repeated Freeze/Thaw Cycles: To maintain serum quality, avoid repeated freeze/thaw cycles. Always refreeze aliquots, not the entire bottle.
<b>PRECAUTIONS AND SAFETY</b>	
3.1	For Research Use Only: Not for human or animal consumption.
3.2	Protective Equipment: Always wear appropriate PPE, such as gloves, lab coats, and face protection, when handling the serum.
3.3	Aseptic Handling: Ensure that serum is handled under aseptic conditions (e.g., laminar flow hood) to prevent contamination.
<b>REGULATORY INFORMATION</b>	
Biowest USA Porcine Serum is processed in accordance with USDA regulations, ensuring high-quality standards for safety and traceability in research and laboratory applications.	
<b>DISPOSAL INSTRUCTIONS</b>	
Dispose of unused serum and packaging according to local regulations for biological materials and hazardous waste.	
<b>CERTIFICATE OF ANALYSIS (CoA)</b>	
A Certificate of Analysis is provided with each batch and contains detailed specifications, including test results for sterility, endotoxin levels, and other quality control parameters.	
<b>DISCLAIMER</b>	
This product is intended for research or further manufacturing only. Not for use as an Active Pharmaceutical Ingredient (API) or food or animal feed. Before use, users should refer to the Certificate of Analysis (CoA) for specific details.	

***For further information or inquiries, please contact Biowest USA Customer Service.***