

	Technical Data Sheet	Ref: TDS-013
	Chicken Serum	Rev: 1

PRODUCT DESCRIPTION

Biowest USA Chicken Serum is a high-quality, natural serum derived from the blood of healthy chickens. It is rich in essential nutrients, including proteins, vitamins, hormones, and growth factors that support optimal growth and maintenance of a variety of cells in culture.

COUNTRY OF ORIGIN

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

Catalog Number	Description	Origin(s)
S0500	Chicken Serum	United States
		New Zealand

INTENDED USE

Biowest USA Chicken Serum is intended for in vitro use only, as a supplement for cell culture and research purposes. It is not for human or animal consumption and is not intended for use as an Active Pharmaceutical Ingredient (API).

COLLECTION SOURCE

Our Chicken Serum is collected aseptically from healthy chickens, following stringent animal health protocols to ensure the highest quality. The serum is processed and tested to meet rigorous quality standards and is traceable from the point of collection to final packaging.

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 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>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.</p>	
STORAGE CONDITIONS	
Store at $\leq -10^{\circ}\text{C}$, protected from light to maintain the serum's integrity.	
SHELF LIFE	
5 years from the date of manufacture when stored under the recommended conditions.	
HANDLING INSTRUCTIONS	
2.1	Thawing: Thaw the serum in a refrigerator (2°C to 8°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°C to 8°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.
PRECAUTIONS AND SAFETY	
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.
REGULATORY INFORMATION	
Chicken Serum is processed in compliance with USDA regulations, ensuring the highest standards of quality and traceability for research and laboratory use.	
DISPOSAL INSTRUCTIONS	
Dispose of unused serum and packaging according to local regulations for biological materials and hazardous waste.	
CERTIFICATE OF ANALYSIS (CoA)	
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.	
DISCLAIMER	
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.