CAPRICORN SCIENTIFIC

Serum Treatment Variants

Tailored Options for Sensitive applications and Regulatory Needs

Fetal Bovine Serum (FBS) continues to play an essential role in a wide range of cell culture applications. However, depending on the cell type, experimental design, or regulatory requirements, untreated serum may not be optimal. Specific post-manufacturing treatments can significantly influence consistency, biological performance, and suitability for defined applications.

At Capricorn Scientific, we offer a broad selection of post-treatment options to match your specific needs from viral inactivation and immunological adjustments to metabolic clearance and exosome removal. Our treated serum options are designed to support the specific needs of sensitive workflows, immunoassays, and EV studies.

Manufacturing & Post-Manufacturing Treatment:

- Extensive incoming control to verify raw material quality
- Triple 0.1 µm sterile filtration for microbiological safety
- Comprehensive documentation and batch-level traceability
- Full analytical testing: total protein, osmolality, pH, endotoxins, hemoglobin, mycoplasma, viruses, and more
- Comprehensive portfolio of post-manufacturing treatment options, including:

heat inactivation | gamma irradiation | ESC pretesting | exosome depletion | charcoal stripping | and many more

POST-MANUFACTURING OPTIONS AT A GLANCE

TREATMENT	PURPOSE & APPLICATION
Heat Inactivation FBS-HI-12A, FBS-HI-12B	» Inactivation of complement proteins » Supports stem cells and immune-sensitive cultures
Gamma Irradiation FBS-GI-12A, FBS-GI-12B	» Viral inactivation without compromising serum quality » Supports safety in diagnostic and industrial workflows
Charcoal Stripping FBS-CS-12A, FBS-CS-12B	» Removes steroid hormones to background level » Ideal for hormone-sensitive cell lines
IgG Stripping FBS-IG-12A, FBS-IG-12B	» Eliminates immunoglobulins to background level » For immunological assays and hybridoma production
Tetracycline Negative Testing FBS-TET-12A, FBS-TET-12B	» Confirmed free of tetracycline antibiotics » Suitable for Tet-On/Tet-Off gene expression systems
Exosome Depletion FBS-ED-12B, FBS-ED-12F, FBS-ED-12G	» Reduced exosome content via centrifugation process » For exosome-free cultures in EV research
Dialyzed FBS FBS-DIA-12A, FBS-DIA-12B	» Reduced small proteins and peptides » Ideal for metabolic studies such as SILAC analysis
ES Cell Pretesting FBS-ES-12A, FBS-ES-12B	» Lot-screened for embryonic stem cell compatibility » Validated for proliferation and morphology
Low Endotoxin FBS-LE-12A, FBS-LE-12B	» Endotoxin level ≤ 1.0 EU/ml » Suitable for sensitive cell types and applications

All Variants Are Available as FBS Minis

WHY OUR TREATMENTS STAND OUT

Reproducible Heat Inactivation

Performed under strictly defined parameters with validated equipment ensuring batch-to-batch consistency and biological activity retention.

Gentle Gamma Irradiation

Our standard irradiation dose of 25 kGy preserves serum quality while inactivating viral contaminants. Higher doses available upon request to meet regulatory requirements.

Flexible Options – Across Serum Types

All post-treatment options are available for FBS and all serum types of our product portfolio. Whether you are working with standard cell lines or sensitive systems, our team will help identify the right treatment combination for your application.

SCAN FOR MORE INFORMATION

For further support, feel free to contact our experts at ***techservice@capricorn-scientific.com*** *or phone (****+49 6424 944 64 0****).*

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