Data Sheet

NotFBS

Catalog Number: NFBS-500
Volume: 500 mL
Sterility: Sterile-filtered (0.1 µm)
Storage Condition: -20°C
Shelf Life: 18 months from date of manufacture

Description

NotFBS is a next-generation serum replacement specifically formulated to eliminate the variability, ethical concerns, and supply chain risks associated with traditional Fetal Bovine Serum (FBS). NotFBS is a complete alternative that supports robust proliferation and viability across a broad spectrum of cell types without the need for matrix coating or additional complex supplements.

Features & Benefits

- **Batch-to-Batch Consistency:** Eliminates lot variability.
- **Broad Compatibility:** Supports adherent and suspension cultures without adaptation.
- **Price:** Less expensive than your basic FBS on the market

Cell Type Performance Validation

NotFBS has been validated to successfully stimulate the growth and maintenance of the following cell types (performance data available upon request):

Cell Category	Specific Examples	Proliferation Rate vs. 10% FBS
Primary Cells	Human Dermal Fibroblasts (HDF),	≥ 110%

Cell Category	Specific Examples	Proliferation Rate vs. 10% FBS
	Human Umbilical Vein Endothelial Cells (HUVEC), Human Astrocytes	
Cancer Cells	HeLa (cervical), MCF-7 (breast), A549 (lung), HepG2 (hepatic)	95–105%
Immortalized Cell Lines	HEK-293, CHO-K1, Vero, NIH/3T3, MDCK	≥ 100%
Induced Pluripotent Stem Cells (iPSCs)	Human iPSC lines (e.g., WLS-1C, GM25256)	Supports clonal growth & pluripotency (>90% OCT4/NANOG positive after 10 passages)

Usage Guidelines

A. Direct Replacement (Most Cell Lines)

1. Aspirate culture medium containing FBS.
2. Gently rinse cells with PBS.
3. Replace with standard growth medium (e.g., DMEM, RPMI) supplemented with **10% NotFBS** (v/v).
4. *Note:* No washout or adaptation period is required for HEK-293, HeLa, or CHO cells.

B. Sensitive Cells (Primary cells & iPSCs)

1. For the first passage, use a 50/50 mix of FBS-containing medium and NotFBS-containing medium.

2. On the second passage, transition to 100% NotFBS-containing medium.
3. For iPSCs, supplement medium with additional ROCK inhibitor (Y-27632) for the first 24 hours post-thawing.

C. Recommended Starting Concentration

- **Routine maintenance:** 5–10% NotFBS
- **Low-serum conditions / starvation studies:** 0.5–1% NotFBS
- **iPSC feeder-free culture:** 10% NotFBS + defined stem cell base medium

Storage & Stability

- **Unopened:** Store at -20°C.
- **Opened:** Stable for 6 weeks at 2–8°C when handled aseptically.
- **Light Sensitivity:** Store in original container; do not expose to prolonged light.

Quality Control

Each batch of NotFBS is tested and certified negative for:

- Mycoplasma (PCR)
- Endotoxin (< 0.5 EU/mL)
- Bacterial & fungal sterility (USP <71>)
- Virus (BVDV, PI-3, BHV-1 by qPCR)

Performance QC: Supports HDF proliferation to ≥ 5 population doublings in 7 days when seeded at 5,000 cells/cm^2 in DMEM + 10% NotFBS.

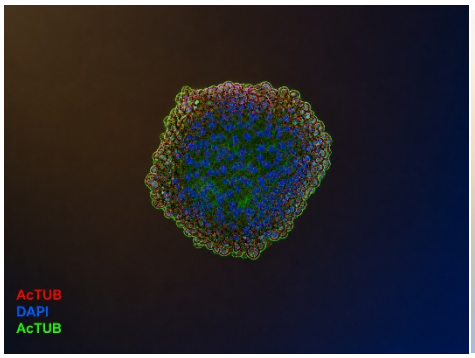
Ordering Information

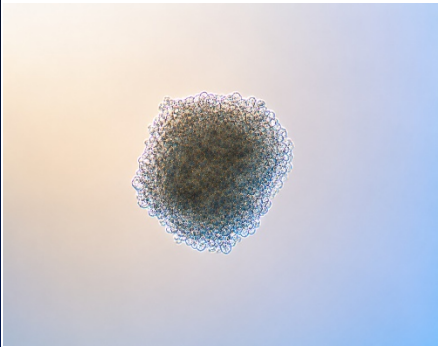
Product	Catalog Number	Volume	Storage
NotFBS – Standard	NFBS-500	500 mL	2–8°C
NotFBS – Trial Size	NFBS-050	50 mL	2–8°C
NotFBS – Bulk (5-pack)	NFBS-2500	5 x 500 mL	2–8°C

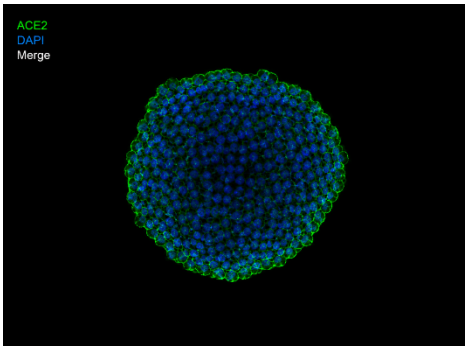
Technical Support & Limited Warranty

NotFBS is for research use only. Not for diagnostic or therapeutic use. The manufacturer warrants product to meet stated specifications at the time of shipment. For technical questions, protocol optimization, or lot-specific certificates of analysis, contact: **info@neobiopharma.com**

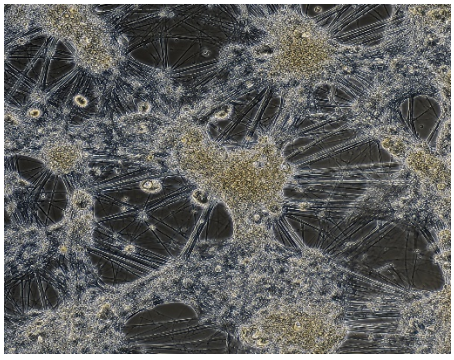
NotFBS was used to grow the following:

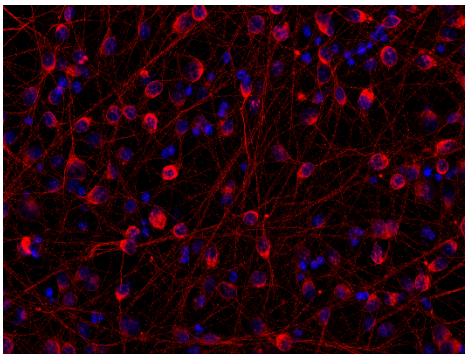


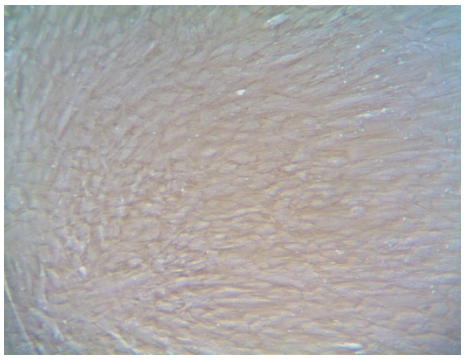




Human Lung Organoid



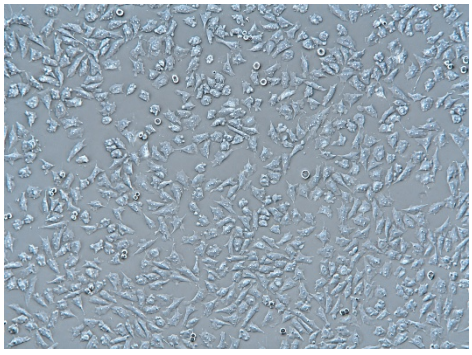


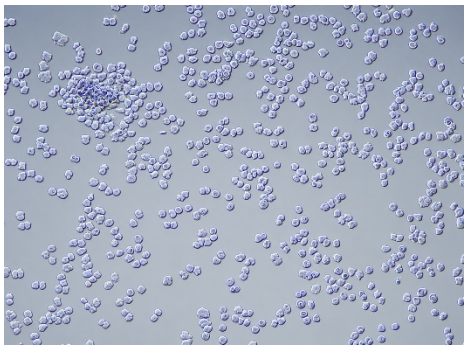


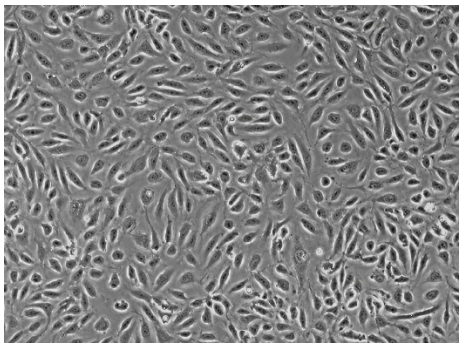
iPSC-Human Dopaminergic Neurons

iPSC-Human Cortical GABAergic Neurons

Kidney Cancer Associated Fibroblast







Human Neuronal Progenitor Stem Cell

Human Oligodendrocytes Progenitors

Primary Human Brain MEC