



## Adipose-Derived Stem Cell Growth Medium

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**Catalog #:** ADSCM001

**Product Size:** 500 ml

**Storage:** 2-8°C

**Shipping:** Polar packs

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### GENERAL INFORMATION

Adipose-derived Stem Cell Growth Medium is a complete, ready-to-use, medium specifically formulated for the robust expansion and maintenance of human adipose-derived stem cells (ASCs or ADSCs) in vitro. This formulation eliminates the batch-to-batch variability and safety concerns, ensuring consistent and reliable performance for your research.

*Product is for Research use only.*

### STORAGE AND USE

The medium can be stored at 2-8°C. The product has a shelf life of 60 days from the date of opening. See expiration date on bottle.

### CAUTION

Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.

### KEY FEATURES

- **Ready-to-Use:** Pre-mixed and sterile-filtered for reproducible results.
- **Optimized for ASCs:** Promotes rapid proliferation while maintaining multipotent differentiation potential (osteogenic, adipogenic, chondrogenic).
- **Preservative-Free:** Contains no antibiotics or antimycotics.

### PHYSIOCHEMICAL PROPERTIES

- Appearance: Clear, red liquid (phenol red indicator).
- pH: 7.2–7.4
- Osmolality: 280-320 mOsm/kg

### TYPICAL GROWTH PERFORMANCE

When used according to instructions, this medium supports:

- **Consistent Proliferation:** Maintains a stable population doubling time over at least 10 passages.
- **High Viability:** Sustains cell viability typically >95%.
- **Stemness Maintenance:** Cells retain expression of standard MSC surface markers (CD73+, CD90+, CD105+, CD45-, CD34-).
- **Multipotency:** Cells retain their capacity to differentiate into adipocytes, osteoblasts, and chondrocytes

### FOR RESEARCH USE ONLY

NEUROMICS REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. v1-09809

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## QUALITY CONTROL DATA

Every lot is rigorously tested for performance and safety.

Test	Specification	Typical Results
Sterility	No microbial growth after 14 days.	Complies
Mycoplasma	Not Detected	Not Detected
Endotoxin	$\leq 1.0$ EU/mL	< 0.5 EU/ml
Growth Performance	Population Doubling Time (PDT) of $\leq 30$ hours over 3 passages.	~26 hours
Viability	$\geq 95\%$ post-thaw viability when used with recommended subculture reagents.	$\geq 96\%$
Multipotency	Cells maintain the ability to differentiate into osteogenic, adipogenic, and chondrogenic lineages.	Confirmed (Lot-Specific Data)

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