



# Skeletal Muscle Differentiation Tool

PCS-950-050™

## Description

The Skeletal Muscle Differentiation Tool is a single-component media for the differentiation of Primary Skeletal Muscle Cells. Muscle Cells can be expanded in vitro with complete media before final differentiation into Skeletal Muscle Cells.

**Volume:** 100 mL

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -20°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## Biosafety Information

ATCC determined that a biosafety level is not applicable to this material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to complete your own risk assessment and understand any potential hazards associated with the material per your organization's policies and procedures and any other applicable regulations as enforced by your local or national agencies.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Handling Procedures

1. Seed ATCC PCS-950-010 (in complete growth media) onto a fibronectin coated multi-well plate, 50,000 cells/cm<sup>2</sup>.
2. Incubate @ 37°C for 24hrs.
3. Replace complete growth media with pre-warmed differentiation media after 24hrs.
4. Leave in differentiation media for a minimum of 96 hours or until a sufficient level of differentiation has occurred. The time to achieve differentiation will require optimization and depends on various factors including cell type, age/confluence of the culture, specific lot of smooth muscle cells, and the formulation of the differentiation medium that is used. Differentiation media should be replaced every 48 hours.

**Note:** Under some conditions, optimal differentiation may require a period of 120 hours or more.

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## Quality Control Specifications

**Bacterial and fungal testing:** Not detected

**Endotoxin:** 5 EU/mL

**Osmolality:** 255 to 285 mOsm/kg

**pH:** 7.5 to 8.1

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Skeletal Muscle Differentiation Tool (ATCC PCS-950-050)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Warranty

The product is provided 'AS IS' and the viability of ATCC® products is warranted for 30 days from the date of shipment, provided that the customer has stored and handled the product according to the information included on the product information sheet, website, and Certificate of Analysis. For living cultures, ATCC lists the media formulation and reagents that have been found to be effective for the product. While other unspecified media and reagents may also produce satisfactory results, a change in the ATCC and/or depositor-recommended protocols may affect the recovery, growth, and/or function of the product. If an alternative medium formulation or reagent is used, the ATCC warranty for viability is no longer valid. Except as expressly set forth herein, no other warranties of any kind are provided, express or implied, including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, manufacture according to cGMP standards, typicality, safety, accuracy, and/or noninfringement.

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# Skeletal Muscle Differentiation Tool

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Product Sheet

## Contact Information

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