

MCDB 153 Medium

Cat. No.: M1523207 | Pack size: 500 mL | Storage: 2-8 °C; protect from light; do not freeze

Overview

MCDB 153 Medium is a low-protein and serum-free culture medium designed for specific cell types. MCDB 153 is one of the MCDB series media, designed and developed by Knedler and Ham. It was initially applied to the culture of human microvascular endothelial cells (HMVEC). In addition to endothelial cells, MCDB 153 medium is also suitable for other cell types, such as hepatocytes, smooth muscle cells, cardiomyocytes and so on.

Product Features

MCDB 153 medium is developed for the serum-free culture of human keratinocytes. Before use, additives required for the growth of human keratinocytes need to be supplemented, such as recombinant epidermal growth factor (rEGF), bovine pituitary extract (BPE), hydrocortisone, etc.

Product Composition

Item	Specification
Form	Liquid
Concentration	1×
Specification	500 mL
pH	7.2-7.4
L-Glutamine	6mM
NaHCO ₃	1176 mg/L
D-Glucose	1100 mg/L
Sodium Pyruvate	55mg/L
HEPES Buffer	Present
Phenol Red Indicator	12.4 mg/L

Operating Guidelines

1. Warm trypsin (0.25% trypsin, 0.02% EDTA) and complete medium to room temperature in advance.
2. Discard the spent culture medium and rinse the cell monolayer with DPBS.
3. Add an appropriate volume of trypsin (for example, 5 mL for a 75 cm² culture vessel) to fully cover the cell monolayer. Incubate at 37 °C for 1-3 minutes. Observe under an inverted microscope until cells are completely detached from the surface of the culture flask. Gently tapping the flask can facilitate cell detachment.
4. Add 5-10 mL of complete medium, rinse the inner wall of the culture flask and mix well. Collect the cell suspension into a 15 mL centrifuge tube.
5. Centrifuge at 1000 rpm for 5-10 minutes, discard the supernatant, and resuspend the cells with 2-5 mL of complete medium.
6. Determine viable cell density and cell survival rate. Perform cell seeding, incubation and subculture following standard procedures according to cell type and experimental requirements.

Precautions

1. Transport at room temperature. Upon receipt, store at 2- 8 °C in the dark and avoid repeated freeze-thaw cycles. The shelf life is 1 year.
2. This product is sterile filtered; gently invert and mix well before use.
3. Our company shall not be liable for any accidents caused by improper use of this product.

Specifications

Property	Value
Specifications & Purity	BioReagent, for cell culture, sterile, 1×; with Sodium Pyruvate, HEPES, Phenol Red and L-Glutamine
Stability And Storage	Store at 2-8°C long term (12 months). Avoid freeze/thaw cycle. Store in the dark.
Storage Conditions	Store at 2-8°C, Protected from light, Do not freeze
Shipped In	Wet ice, Do not freeze. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent, for cell culture, sterile

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
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