

Complete Medium (α -MEM,10% FBS) Datasheet

Document Version: V1.0 | Issue Date: Mar 2026

For Research Use Only (RUO). Not for diagnostic or therapeutic applications.

1. Product Overview

Complete Medium α -MEM (10% FBS) is a pre-formulated complete medium produced by advanced dynamic freeze-drying technology. It consists of α -MEM basal medium, 10% fetal bovine serum, penicillin-streptomycin, L-glutamine, nucleosides, deoxynucleosides and other essential additives. No extra basal components are needed to achieve robust adherent cell growth and proliferation.

The product retains native structural integrity and biological activity of all components with convenient re-dissolution procedure. It maintains stable pH of 7.00-7.40 and delivers sufficient energy and comprehensive nutrition for highly-metabolic and fast-growing cells. Featuring high versatility, it supports in-vitro culture of mammalian cells derived from diverse sources and physiological states.

2. Product Specifications

Item	Content
Product Name	Complete medium (10%FBS+ α -MEM)
Product Code	HD6198-100; HD6198-500; HD6198A-100; HD6198A-500
Package	100 mL/bottle; 10×100 mL/box; 500 mL/bottle
Manufacturer	BioDomi GmbH
Authorized Representative	Accumedi Solutions Co., Limited

3. Major Components and Function

Component	Function	Typical Concentration
α -MEM Basal Medium	Provide comprehensive nutrients and suitable environment for cell growth, proliferation and metabolism	89 %
Fetal bovine serum(FBS)	Supply growth factors, hormones and attachment factors for cell proliferation & adhesion	10 %
Penicillin-Streptomycin	Inhibit bacterial contamination (Penicillin:100 U/mL; Streptomycin:100 μ g/mL)	1 %
L-glutamine	Key substrate for cellular energy metabolism	2 mM
D-glucose	Carbon source for energy metabolism and biosynthesis of in-vitro cultured cells	1.0 g/L
Nucleosides	Fundamental raw material for RNA synthesis, support cell metabolism and proliferation	-
Deoxynucleosides	Fundamental raw material for DNA synthesis, support cell metabolism and proliferation	-

Note: Minor composition variance exists among product variants. Refer to lot-specific Certificate of Analysis (COA).

4. Storage & Shelf-Life

Parameter	Condition
Storage Temperature	2-8 °C Refrigerate. Do not freeze

Parameter	Condition
Light Protection	Store in dark; use amber bottle or foil wrapping to prevent photodegradation
Unopened Shelf-Life	24 months from date of manufacture; see Exp. Date printed on COA
Shelf-Life after Opening	Use within 3-4 weeks after opening; aliquot to avoid repeated warming
Container	Keep in original sealed bottle or sterile air-tight container
Transportation	Ship with ice packs, dry-ice is forbidden. Prevent freezing in winter. Thaw completely before storing at 2-8 °C once frozen.
Ambient Temperature Stability	Maintain acceptable quality for maximum 1 week under ambient temperature; avoid long-time exposure.

5. Quality Release Specifications (Refer to COA)

No.	Test Item	Release Limit
1	pH value	7.00-7.40
2	Total protein content	4.5-5.5 mg/L
3	Endotoxin	≤5 EU/mL
4	Coliphage test	Negative
5	Osmotic pressure	270-330 mOsm/kg H ₂ O
6	Bovine IgG content	<50 mg/L

No.	Test Item	Release Limit
7	Sterility test	Negative
8	Mycoplasma test	Negative
9	Support cell proliferation test	Pass
10	Virus detection	Pass

Note: Actual test data for each batch is shown in corresponding COA document.

Reference lot example: Lot No.20260109; Production Date Jan.9th,2025; Exp.Date Jan.8th,2030

6. Directions for Use

6.1 Pre-use Visual Inspection

Verify lyophilized powder is not dissolved; vial is intact without leakage. Reconstituted liquid should be clear without turbidity or sediment. Contact supplier for replacement if any abnormality occurs.

Trace slowly-soluble particles may exist due to freeze-drying physical property. This is not contamination and will not impair medium performance. Product can be used normally.

6.2 Equilibration

1. Take out from 2-8 °C refrigerator and equilibrate to room temperature for ~10 min.
2. Warm medium in 37 °C water-bath for 15-30 min prior to experiment.
3. Only warm required volume for immediate use. Discard unused warmed medium at end of working day.

6.3 Dissolution & Mixing for Lyophilized Product

1. Press bottle cap top to make inner powder fall down completely.
2. Vigorously shake bottle for 1 min until powder fully dissolved.
3. Unscrew cap, twist and remove inner powder cartridge, discard the cartridge.
4. Medium is ready-to-use after full dissolution, pH maintains 7.00-7.40.

6.4 Aseptic Operation

- Medium is sterile-filtered at 0.2 µm by manufacturer.
- All manipulations must be performed aseptically inside certified biosafety cabinet.
- Inspect bottle seal and vial for leakage or contamination before use.

7. Application

High-versatility medium for in-vitro culture of multiple mammalian adherent cells with diverse origins and physiological states. For Research Use Only, not for clinical diagnostic or therapeutic application.

8. Important Notes & Safety Precautions

1. For Research Use Only (RUO). Not for clinical diagnosis or human therapy.
2. Do not freeze. If frozen during winter transport, fully thaw before storing at 2-8 °C.
3. Wear proper PPE including gloves, lab-coat and eye protection during handling.
4. Treat all biological materials as potentially hazardous. Follow institutional biosafety protocols.
5. Dispose spent medium and cell-culture waste complying with local environmental and biosafety regulations.
6. Do not use beyond expiration date printed on label.
7. Aliquot medium after opening to reduce repeated warming, consume within 3-4 weeks.

9. Contact Information

BioDomi GmbH

Address: Schokoladenring 13, 65795 Hattersheim am Main, Germany

Authorized on behalf of: Accumedi Solutions Co., Limited

Address: Unit1022, Beverley Commercial Centre, 87-105 Chatham Road South, Tsim Sha Tsui, Kowloon Hong Kong

Tel: +852-44358478

Email: contact@accumedi.com

Document Version: V1.0 | Issue Date: March 2026