

Complete Medium (RPMI-1640, 10% FBS)

Datasheet

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

1. Product Overview

Complete Medium RPMI 1640 (10% FBS) is a pre-formulated complete medium manufactured by advanced dynamic freeze-drying technology. It contains RPMI-1640 basal medium, 10% fetal bovine serum, antibiotics, glutamine and other essential additives. No additional basal components are required for robust cell growth and proliferation.

The product preserves native structure and biological activity of all components with simple reconstitution procedure. Stable pH range is 7.00-7.40, providing sufficient energy and comprehensive nutrition support for highly-metabolic and fast-growing cells. It is widely applied in immune-cell function research, tumor cell in-vitro culture and monoclonal-antibody preparation from hybridoma cells.

2. Product Specifications

Item	Content
Product Name	Complete medium (10%FBS+RPMI1640)
Product Code	HD6193-100; HD6193-500; HD6193A-100; HD6193A-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
RPMI-1640 Basal Medium	Deliver basal nutrition and stable growth environment for in-vitro cultured cells	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 µg/mL)	1 %
L-glutamine	Key substrate for cellular energy metabolism	300 mg/L
D-glucose	Supply energy and metabolic raw materials for cultured cells	2.0 g/L
Sodium bicarbonate	Maintain pH stability of culture medium	2 g/L

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
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

Parameter	Condition
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	3-4 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
7	Sterility test	Negative
8	Mycoplasma test	Negative

No.	Test Item	Release Limit
9	Support cell proliferation test	Pass
10	Virus detection	Pass

Actual test data for each batch is shown in corresponding COA document. Reference lot example: Lot No.20260115; Production Date Jan.15th,2025; Exp.Date Jan.14th,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

Suitable for mammalian cell culture including immune-cell function study, tumor cell culture in-vitro, hybridoma for monoclonal antibody production. 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

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