DMEM-RS and MEM-RS

HYCLONE MEDIA AND SUPPLEMENTS

HyClone™ HyQ™-RS media DMEM-RS and MEM-RS are reduced serum (RS) versions of Dulbecco's Modified Eagle Medium (DMEM) and Minimal Essential Medium (MEM), respectively (Fig 1). To enable reduced use of fetal bovine serum (FBS) in cell culture applications, the formulations are enhanced with antioxidants and other nutritional factors to compensate for the lower levels of critical serum factors.

Features of DMEM-RS and MEM-RS media include:

- Cost-saving opportunity by reducing FBS need
- System tested with HyClone serum products
- Produced in compliance with cGMP

Specifications

Cost-saving opportunity

Using natural nutritional components of serum, DMEM-RS and MEM-RS are nutritionally enhanced versions of traditional DMEM and MEM basal media. The recommended concentration of serum with DMEM-RS and MEM-RS is 2% to 4% (Fig 2). DMEM-RS and MEM-RS enable cost-savings in cell culture applications by reducing the volume of serum usage and allowing extended use of a selected serum lot.

System tested

As all HyClone classical medium products, DMEM-RS and MEM-RS media are system tested with HyClone serum products. Use of system tested products reduces variability in culture caused by serum lot-to-lot variation, allowing for consistent and reproducible results.



Fig 1. DMEM-RS and MEM-RS media enable reduced serum use in cell culture applications.

HyClone quality

MEM-RS and MEM-RS formulation, hydration, filtration, and aseptic filling processes are environmentally controlled and validated to ensure compliance with cGMP (21 CFR 820, Quality System Regulation), ISO 9001, ISO 13485, and Cytiva's own stringent quality standards for production of HyClone media and supplements. Only the high-quality raw materials are sourced, sampled, tested, and cleared for manufacturing use.

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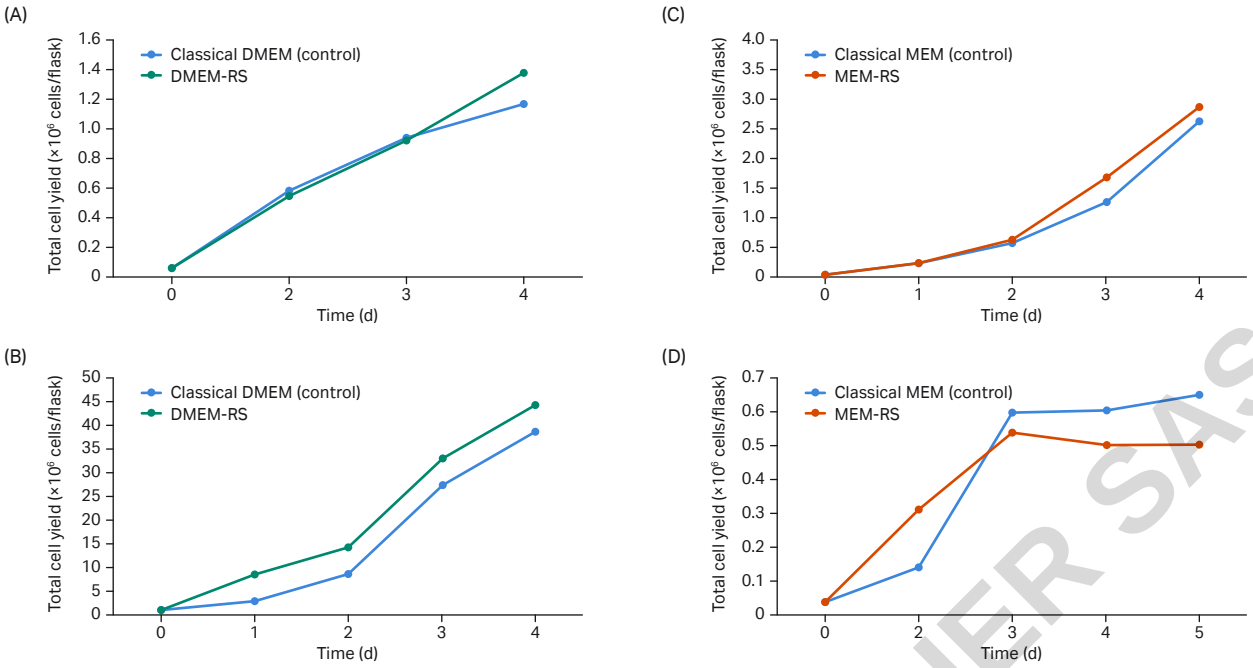


Fig 2. Comparison of (A) MRC-5 cells, (B) SP2/0 cells, (C) Vero cells, and (D) WI-38 cells grown in RS-media supplemented with 2% to 4% serum with growth in corresponding classical medium versions supplemented with traditional serum concentrations (10%).

Ordering information

Product	Size	Product code
HyClone HyQ DMEM-RS	500 mL	SH30565.01
	1000 mL	SH30565.02
HyClone HyQ MEM-RS	500 mL	SH30564.01
	1000 mL	SH30564.02

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