

HiTransfect™ Transfection Medium, Reduced Serum

**With Sodium bicarbonate
Without Phenol red and L-Glutamine**

Product Code: RSL020

Product description:

The efficiency of transfection can be influenced by the composition of the medium in which cells are grown. Media components also affect the growth of transfected cells and as well as expression of the recombinant proteins. For most transfection reagents, the transfection efficiency is reduced with increase in concentration of serum. Hence, low serum and serum-free media are preferred over serum containing media. RSL020 is a reduced-serum modified form of Minimum Essential Medium Eagle. It does not contain phenol red and L-Glutamine. Additional factors present in the formulation allow up to 50% reduction of serum while culturing adherent as well as suspension cells without need of prior adaptation. Cells exhibit optimum growth rate and characteristic morphology. The medium gives high efficiency of transfection and is compatible with all types of transfection agents.

Contents:

Code	Contents
Part A	Basal Medium, liquid
Part B	Growth Supplement

Directions:

Preparation of complete medium (RSL020)

1. Thaw the growth supplement (Part B) overnight at 2-8° C.
2. Disinfect the external surface of bottle of Part A and Part B by spraying with isopropyl alcohol before placing in a biosafety hood.
3. Transfer the entire content of one bottle of Part B to 500ml of basal medium (Part A) under aseptic conditions.
4. Add 10ml of 200mM L-Glutamine (TCL012) to 500ml of basal medium (Part A).

5. Tightly cap the bottle and swirl gently to ensure proper mixing.
Note: Do not mix vigorously. Doing so will cause formation of foam.
6. Store the complete medium (RSL020) at 2 - 8°C until use.
7. Serum Supplementation
Note: The optimum serum concentration for each cell line should be pre-determined as per the growth characteristics of cell line and the application it is being used for. Accordingly, the concentration of serum will vary.

Material required but not provided:

Trypsin-EDTA solution (TCL007)
Trypsin Inhibitor from Soyabean (TCL068)
L-Glutamine solution 200mM (TCL012)
Fetal Bovine Serum (RM10432)

Quality control:

Appearance

Part A: Clear colorless solution.

Part B: Clear colorless solution.

pH of Part A

7.00 - 7.60

Osmolality of Part A (mOsm/KgH₂O)

280.00 - 320.00

Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification

Cultural Response

The growth promotion capacity of the medium is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts.

Storage and Shelf Life:

Store basal medium at 2-8°C away from bright light.

Store growth supplement at -20°C.

Use before expiry date given on the product label.

Shelf life of the complete medium is 6-8 weeks at 2-8°C.

Note: Freezing of the basal medium and complete medium is not recommended. Avoid repeated freezing and thawing of the growth supplement.

Disclaimer:

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