



Product Specification

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Technical Information

MicSera Dulbecco's Modified Eagle Medium, High Glucose

With L-Alanyl-L-Glutamine, Sodium Pyruvate and Sodium bicarbonate 1X Liquid Cell Culture Medium requiring reduced serum supplementation

Product Code: RSL1003G

Application:- MicSera media are based on the classical formulations supplemented with insulin, transferrin and other advanced nutrients. The additional nutrients help in reducing the percentage of serum required to grow most of the common cell lines. The percentage of serum reduction may vary with type of cell line used. For nonfastidious cell lines serum can be reduced from 10 % to as low as 1%. For fastidious cell lines serum usage can be reduced from 10 % to 2.5%. MicSera medium can be used without prior adaptation and sub cultured using normal procedures. Reduced serum supplementation improves the reproducibility of experimental results by decreasing the variability caused due to undefined serum constituents. It also facilitates down regulation process in bioassays and in purification process of culture products. RSL1003G is MicSera Dulbecco's Modified Eagle Medium with sodium pyruvate, sodium bicarbonate and L-Alanyl-L-Glutamine. L-alanyl-L-glutamine is the stabilized dipeptide form of L-glutamine. Dipeptide form prevents the intramolecular cyclization reaction, thus preventing toxic build-up of ammonia. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Ingredients	mg/Litre
INORGANIC SALTS	
Calcium chloride dihydrate	265.000
Ferric nitrate nonahydrate	0.100
Magnesium sulphate anhydrous	97.720
Potassium chloride	400.000
Sodium bicarbonate	3700.000
Sodium chloride	6400.000
Sodium dihydrogen phosphate anhydrous	109.000
AMINO ACIDS	
Glycine	30.000
L-Alanyl-L-Glutamine	868.000
L-Arginine hydrochloride	84.000
L-Cystine dihydrochloride	62.570
L-Histidine hydrochloride monohydrate	42.000
L-Isoleucine	105.000
L-Leucine	105.000
L-Lysine hydrochloride	146.000
L-Methionine	30.000
L-Phenylalanine	66.000
L-Serine	42.000
L-Threonine	95.000
L-Tryptophan	16.000
L-Tyrosine disodium salt	103.790
L-Valine	94.000





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VITAMINS

Choline chloride 4.000 D-Ca-Pantothenate 4.000 Folic acid 4.000 Nicotinamide 4.000 Pyridoxal hydrochloride 4.000 Riboflavin 0.400 Thiamine hydrochloride 4.000 -Inositol 7.200

OTHERS

D-Glucose 4500.000
Growth Supplement mix Proprietary
Phenol red sodium salt 15.900
Sodium pyruvate 110.000

Methodology

Recommendations for use with MicSera Media:

1. MicSera media have been optimized at 2.5% serum concentration for a broad range of cell culture applications. Recommended concentrations of serum using MicSera media ranges from 1-5%. However the concentration of serum used may need to be adjusted for specific cell types or applications to achieve optimal results. Titration of FBS concentration is recommended to determine maximum serum reduction.

2. In case of antibiotics being used to control contamination, it is recommended to reduce the amount of antibiotic in proportion to the amount of serum reduced.

Material required but not provided

Fetal Bovine Serum (BA3112/RM12432)

Quality control

Appearance

Orangish red colored, clear solution.

рΗ

7.00 -7.60

Osmolality in mOsm/Kg H2O

320.00 -360.00

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 and comparing it with a control medium through minimum three subcultures.

Endotoxin Content

NMT 5EU/ml

Storage and Shelf Life

- Store at 2-8°C away from bright light.
- Shelf life is 12 months.
- Use before expiry date given on the product label.





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Disclaimer:

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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