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Technical Datasheet

LoSera™ Dulbecco's Modified Eagle Medium, Low Glucose

With 1 gm Glucose per litre, Sodium pyruvate and Sodium bicarbonate
Without L-Glutamine
1X Liquid Cell Culture Medium requiring reduced serum supplementation

Product Code: RSL019

Product Description:

LoSera™ 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 non-fastidious 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%. LoSera™ 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. RSL019 is LoSera™ Dulbecco's Modified Eagle Medium with 1 gm Glucose per litre, sodium pyruvate and sodium bicarbonate. It does not contain L-glutamine. Users are advised to review the literature for recommendations regarding medium supplementation and physiological growth requirements specific for different cell lines.

Composition:

Ingredients	mg/L
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-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 dihydrate	103.790
L-Valine	94.000
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
i-Inositol	7.200
OTHERS	
D-Glucose	1000.000
Growth Supplement mix	Proprietary
Phenol red sodium salt	15.900
Sodium pyruvate	110.000

Directions:

1. Add 20ml of 200mM L-glutamine (TCL012) or HiGlutaXL™ supplement (TCL030) for 1 liter of medium.

Recommendations for use with Losera™ Media:

1. Losera™ media have been optimized at 2.5% serum concentration for a broad range of cell culture applications. Recommended concentrations of serum using Losera™ 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 recommended to determine maximum serum reduction.

2. LoSera™ media are provided as 1X solutions and need to be supplemented with 4mM Glutamine and required amount of reduced serum.
3. 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:

L-Glutamine solution 200mM (TCL012)
HiGlutaXL™ Supplement (TCL030)
Fetal Bovine Serum (RM1112/RM10432)

Quality Control:

Appearance
Orangish red colored, clear solution.

pH
7.00 -7.60

Osmolality in mOsm/Kg H_2O
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.

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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