

LoSera™ Nutrient Mixture F-12 Ham

With Sodium bicarbonate

Without L-Glutamine

1X Liquid Cell Culture Medium requiring reduced serum supplementation

Product Code: RSL010

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.

RSL010 is LoSera™ Nutrient Mixture F-12 Ham medium with 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	44.100
Copper sulphate pentahydrate	0.0025
Ferric sulphate heptahydrate	0.834
Magnesium chloride anhydrous	57.650
Potassium chloride	223.600
Sodium bicarbonate	1176.000
Sodium chloride	7599.000
Sodium phosphate dibasic anhydrous	142.040
Zinc sulphate tetrahydrate	0.863
AMINO ACIDS	
Glycine	7.500
L-Alanine	8.910
L-Arginine hydrochloride	210.700

L-Asparagine anhydrous	15.010
L-Aspartic acid	13.300
L-Cysteine hydrochloride	35.120
L-Glutamic acid	14.700
L-Histidine hydrochloride monohydrate	20.960
L-Isoleucine	3.940
L-Leucine	13.100
L-Lysine hydrochloride	36.500
L-Methionine	4.480
L-Phenylalanine	4.960
L-Proline	34.500
L-Serine	10.500
L-Threonine	11.900
L-Tryptophan	2.040
L-Tyrosine disodium salt	7.810
L-Valine	11.700
VITAMINS	
Biotin	0.0073
Choline chloride	13.960
D-Ca-Pantothenate	0.480
Folic acid	1.320
Nicotinamide	0.037
Pyridoxine hydrochloride	0.062
Riboflavin	0.038
Thiamine hydrochloride	0.340
Vitamin B12	1.360
i-Inositol	18.000
OTHERS	
D-Glucose	1801.600
Growth Supplement mix	Proprietary
Hypoxanthine sodium salt	4.770
Linoleic acid	0.084
Lipoic acid	0.210
Phenol red sodium salt	1.240
Putrescine dihydrochloride	0.161
Sodium pyruvate	110.100
Thymidine	0.730

Directions :

1. Add 20ml of 200mM L-glutamine (TCL012) or HiGlutaXL™ supplement (TCL030) for 1 litre 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 is 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 antibiotics 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 H₂O

270.00 -310.00

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.

Revision : 1 / 2013

**Disclaimer :**

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