

ISCOVE'S MODIFIED DULBECCO'S MEDIUM

Catalog # 36150

500 mL per bottle

Selection of suitable nutrient medium is dependent on the type of cell, conditions of culture, and degree of chemical definition required for the cell culture application. This product has been pre-screened for use with other reagents of the ES-Cult™ product line for optimal performance for the *in vitro* hematopoietic differentiation of murine embryonic stem (ES) cells.

PRODUCT DESCRIPTION:

This product contains L-glutamine and is supplemented with Sodium Bicarbonate.

This product **does not** contain Antibiotics.

pH 7.2 - 7.6.

Formulation is listed on reverse side.

STABILITY / STORAGE:

Store at 2 - 8°C.

Stable for one year from date of manufacture (refer to: Directions For Use).

Contents guaranteed sterile if seal is not tampered with.

DIRECTIONS FOR USE:

This product contains the labile amino acid L-glutamine which has a half-life of approximately one month when stored at 2 - 8°C. For certain cell culture applications, medium stored for greater than two months following date of manufacture should be supplemented with additional L-glutamine. Add 5 mL of 200mM

L-glutamine (Cat# 07100) to 500 mL to achieve a final concentration of 2 mM.

If desired, add 5 mL of Penicillin and Steptomycin Solution (Cat# 07500) to each 500 mL bottle to achieve a final concentration of 100 U/mL Penicillin and 100 µg/mL of Streptomycin. Following addition of antibiotics, medium should be used within one week.

**THIS REAGENT IS FOR LABORATORY USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

ISCOVE'S MODIFIED DULBECCO'S MEDIUM

COMPONENT	36150 g/L
INORGANIC SALTS	
Calcium Chloride $\cdot 2H_2O$	0.219
Magnesium Sulfate	0.09767
Potassium Chloride	0.33
Potassium Nitrate	0.000076
Sodium Chloride	4.505
Sodium Phosphate Monobasic	0.109
Sodium Selenite	0.000017
AMINO ACIDS	
L-Alanine	0.025
L-Arginine $\cdot HCl$	0.084
L-Asparagine $\cdot H_2O$	0.0284
L-Aspartic Acid	0.03
L-Cystine $\cdot 2HCl$	0.09124
L-Glutamic Acid	0.075
L-Glutamine	0.584
Glycine	0.03
L-Histidine $\cdot HCl \cdot H_2O$	0.042
L-Isoleucine	0.105
L-Leucine	0.105
L-Lysine $\cdot HCl$	0.146
L-Methionine	0.03
L-Phenylalanine	0.066
L-Proline	0.04
L-Serine	0.042
L-Threonine	0.095
L-Tryptophan	0.016
L-Tyrosine $2Na \cdot 2H_2O$	0.10379
L-Valine	0.094
VITAMINS	
D-Biotin	0.000013
Choline Chloride	0.004
Folic Acid	0.004
myo-Inositol	0.0072
Niacinamide	0.004
D-Pantothenic Acid (hemicalcium)	0.004
Pyridoxine $\cdot HCl$	0.004
Riboflavin	0.0004
Thiamine $\cdot HCl$	0.004
Vitmaine B-12	0.000013
OTHER	
D-Glucose	4.5
HEPES	5.958
Phenol Red $\cdot Na$	0.016
Pyruvic Acid $\cdot Na$	0.11
Sodium Bicarbonate	3.024