

### Technical Information

#### William's Medium E

With Sodium bicarbonate Without L-Glutamine 1X Liquid Cell Culture Medium

#### Product Code: AL1125

**Application:** William's Medium E was developed by Williams and Gunn for the isolation and long term maintenance of adult rat liver epithelial cells. The medium is a rich modification of William's medium D and was developed during studies performed to explore the possibilities of culturing adult liver cells on a long-term basis.

AL1125 is William's 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/Litre
<b>INORGANIC SALTS</b>	
Calcium chloride dehydrate	265.000
Copper sulphate pentahydrate	0.0001
Ferric nitrate nonahydrate	0.0001
Magnesium sulphate anhydrous	97.700
Manganese chloride tetrahydrate	0.0001
Potassium chloride	400.000
Sodium chloride	6800.000
Sodium dihydrogen phosphate	122.000
Sodium bicarbonate	2200.000
Zinc sulphate heptahydrate	0.0002
<b>AMINO ACIDS</b>	
Glycine	50.000
L-Alanine	90.000
L-Arginine hydrochloride	60.300
L-Asparagine anhydrous	16.540
L-Aspartic acid	30.000
L-Cysteine dihydrochloride	64.070
L-Cystine	20.000
L-Glutamic acid	44.500
L-Histidine hydrochloride	18.580
L-Isoleucine	50.000
L-Leucine	75.000
L-Lysine hydrochloride	87.460
L-Methionine	15.000
L-Phenylalanine	25.000
L-Proline	30.000
L-Serine	10.000
L-Threonine	40.000
L-Tryptophan	10.000
L-Tyrosine disodium salt	43.500
L-Valine	50.000

### VITAMINS

Ascorbic acid sodium salt	2.270
Calciferol	0.100
Choline chloride	15.000
D-Biotin	0.500
D-Ca-Pantothenatehemicalcium	1.000
Folic acid	1.000
Menadione sodium bisulphate	0.010
Niacinamide	1.000
Pyridoxal hydrochloride	1.000
Retinol acetate	0.100
Riboflavin	0.100
Thiamine hydrochloride	1.000
Vitamin B12	0.200
myo-Inositol	2.000

### OTHERS

D-Glucose	2000.000
Glutathione reduced	0.050
Methyl linoleate	0.030
Phenol red	10.700
Pyruvate acid sodium salt	25.000

## Methodology

1. Add 10ml of 200mM L-glutamine (TCL1012) for 1 litre of medium.

## Material required but not provided

L-Glutamine solution 200mM (TCL1012)

## Quality control

### Appearance

Orangish red colored, clear solution.

### pH

7.00 -7.60

### Osmolality in mOsm/Kg H<sub>2</sub>O

290.00 -330.00

### 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 18 months. Use before expiry date given on the product label.

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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