

### William's E Medium Ingredient Formula

Ingredient(mg/L) / Cat. No.	PM151211	PM151212	PM151213
<b>Inorganic Salt</b>			
CaCl <sub>2</sub> (Anhydrous)	200	200	200
CuSO <sub>4</sub> •5H <sub>2</sub> O	0.0001	0.0001	0.0001
Fe(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O	0.0001	0.0001	0.0001
MgSO <sub>4</sub> (Anhydrous)	97.67	97.67	97.67
MnCl <sub>2</sub> •4H <sub>2</sub> O	0.0001	0.0001	0.0001
KCl	400	400	400
NaHCO <sub>3</sub>	2200	2200	2200
NaCl	6800	6800	6800
NaH <sub>2</sub> PO <sub>4</sub> (Anhydrous)	122	122	122
ZnSO <sub>4</sub> •7H <sub>2</sub> O	0.0002	0.0002	0.0002
<b>Amino Acid</b>			
L-Alanyl-L-Glutamine	–	–	434
Glycine	50	50	50
L-Alanine	90	90	90
L-Arginine	50	50	50
L-Asparagine Monohydrate	20	20	20
L-Aspartic Acid	30	30	30
L-Cysteine	40	40	40
L-Cystine Dihydrochloride	26.07	26.07	26.07
L-Glutamic Acid	44.5	44.5	44.5
L-Glutamine	–	–	–
L-Histidine	15	15	15
L-Isoleucine	50	50	50
L-Leucine	75	75	75
L-Lysine Hydrochloride	87.46	87.46	87.46
L-Methionine	15	15	15
L-Phenylalanine	25	25	25
L-Proline	30	30	30
L-Serine	10	10	10
L-Threonine	40	40	40
L-Tryptophan	10	10	10
L-Tyrosine Disodium Salt Dihydrate	50.45	50.45	50.45
L-Valine	50	50	50

<b>Vitamin</b>			
L-Ascorbic Acid	2	2	2
Biotin	0.5	0.5	0.5
Choline Chloride	1.5	1.5	1.5
D-Calcium Pantothenate	1	1	1
Calciferol	0.1	0.1	0.1
Folic Acid	1	1	1
Menadione Sodium Bisulfite	0.01	0.01	0.01
Niacinamide	1	1	1
Pyridoxal Hydrochloride	1	1	1
Riboflavin	0.1	0.1	0.1
Thiamine Hydrochlorid	1	1	1
Vitamin A Acetate	0.1	0.1	0.1
Vitamin B12	0.2	0.2	0.2
α-Tocopherol Sodium Phosphate	0.01	0.01	0.01
Meso-inositol	2	2	2
<b>Others</b>			
D-Glucose	2000	2000	2000
Glutathione (Reduced)	0.05	0.05	0.05
Methyl Linoleate	0.03	0.03	0.03
Sodium Pyruvate	25	25	25
Phenol Red	10	–	10