

Williams Medium E - standard medium composition

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 Zusammensetzungen

	Component	mg/L	mM	
Anorganic salts	CaCl ₂ anhyd.	200.00	1.8018	
	Fe(III)-NO ₃ x 9H ₂ O	0.0001	2.4752E-7	
	KCl	400.00	5.3333	
	Cu(II)-SO ₄ x 5H ₂ O	0.0001	3.9999E-7	
	MgSO ₄ anhyd.	97.67	0.8139	
	MnCl ₂ x 4H ₂ O	0.0001	5.0505E-7	
	NaCl	6800.00	117.2414	
	NaH ₂ PO ₄ x H ₂ O	140.00	1.0145	
	ZnSO ₄ x 7H ₂ O	0.0002	6.9444E-7	
	NaHCO ₃	2240.00	26.6635	
Other components	D(+)-Glucose anhydrous	2000.00	11.1111	
	Glutathion red.	0.05	1.6287E-4	
	Methylinoleat	0.03	1.0170E-4	
	Sodium pyruvate	25.00	0.2273	
	Phenol red	10.00	0.0266	
Amino acids	L-Alanine	90.00	1.0112	
	L-Arginine base	50.00	0.2874	
	L-Asparagin x H ₂ O	20.00	0.1333	
	L-Aspartic acid	30.00	0.2255	
	L-Cysteine	40.00	0.3306	
	L-Cystine	20.00	0.0833	= 26.07 mg/L Cystine x 2 HCl
	L-Glutamine	292.00	1.9981	
	L-Glutaminic acid	50.00	0.3401	
	Glycine	50.00	0.6667	
	L-Histidine base	15.00	0.0968	
	L-Isoleucine	50.00	0.3817	
	L-Leucine	75.00	0.5725	
	L-Lysine x HCl	87.50	0.4779	
	L-Methionine	15.00	0.1007	
	L-Phenylalanine	25.00	0.1515	
	L-Proline	30.00	0.2609	
	L-Serine	10.00	0.0952	
	L-Threonine	40.00	0.3361	
	L-Tryptophan	10.00	0.0490	
	L-Tyrosine	35.00	0.1941	= 50.65 mg/L Tyrosine x 2 Na
L-Valine	50.00	0.4274		
Vitamines	Ascorbic acid	2.00	0.0114	
	D(+)-Biotin	0.50	0.0020	
	Calciferol	0.10	2.5189E-4	
	D-Ca-pantothenate	1.00	0.0021	
	Choline chloride	1.50	0.0107	
	Folic acid	1.00	0.0023	
	myo-Inositol	2.00	0.0111	
	Menadione sodium bisulfite	0.01	3.6232E-5	
	Niacinamide	1.00	0.0082	
	Pyridoxal x HCl	1.00	0.0049	
	Riboflavin	0.10	2.6596E-4	
	Thiamine x HCl	1.00	0.00297	
	DL- α -Tocopherol phosphate-Na ₂	0.01	1.8028	
	Vitamin A (acetate)	0.10	3.0488	
	Vitamin B12	0.20	1.4760E-4	