	Supplementary table S2: Defined media composi	tion	Final amount per liter	SOLVENT	Stock concentration	fold concentration	Volume to add from the stock to the final media preparation	Stock Management	Volume Amount of stock		T T	
	Supplementary table 32. Defined friedla composi	Lion	rillar alliount per liter	SOLVEIVI	Stock concentration	Tota concentration	volume to add from the stock to the final media preparation	Stock Wallagement	Volume Amount of stock	l		-
HEMATIN, HEN	IIN, are retained in the filter, so DO NOT FILTER, add afterwards	when required										
	D, ADJUST TO PH 6.8 APPROX 3 ML OF CONCENTRATED NAOH/S											
	Class	Compound	M8: GMM+LAB plus Muci	in								
yes	40 Sugar	D-glucose	5 g	H2O	125 g /L	25x	40 ml in 1000 ml	'	40 400 ml H2O	50 g	Filter sterilize	
yes	6 Sugar	Fructose	1 g	H2O	25 g/L	25x				10 g		
yes	12 Sugar	Maltose	1 g	H2O	25 g/L	25x				10 g		
yes	4 Sugar	Lactose	1 g	H2O	25 g/L	25x				10 g		
	121 Sugar	Cellobiose	1 g	H2O								
yes	103 (-20C) Others	NAD (N1511)	2 mg	H2O	25 mg/1 ml	12500x	80 ul in 1000 ml	Freeze -80C, 50 ul aliquots	0,08 1 ml H2O	25 mg	Filter sterilize	
yes	94 Others	Hemin	0.5 mg		(50 mg/ 1ml 1N NaOF		1 ml in 1000 ml	Freeze 1 ml aliquots	1 50 ml 0.01 NaOH		No filter!!	
yes	19 Others	KCI Hematin	50 mg	H2O DMSO	50 g/L	1000x	1 ml in 1000 ml	Bottle (bulk)	1 50 ml H2O	2.5 g	Filter sterilize	
yes	92 Amino acids	Mix 1	1.2 mg	DIVISO	12 mg/1 ml DMSO	10000x	100 ul in 1000 ml	Freeze 20 aliquots of 100 ul, re	0,1 5 ml DMSO 10	60 mg	No filter!!	
yes	89 Amino acids	Mix 2	0.171 g 0.24 g				**5 ml in 1000 ml		5		+	
yes	52 Amino acids			H2O	0.05 g/L	20x	50 ml in 1000 ml		50 500 ML H2O	5 g	Filter sterilize	
yes yes	*88 Amino acids	I-Cysteine 200 mM L-alanyl-Glutamine	0.5 g	1120	0.03 g/L	72X	13.8 ml in 1000 ml		13.8	- E	i nicei Sterinize	200 mM L-alanyl-Glutamine
yes	21 Nucleotids	Adenine	11 mg	1M HCl	11 mg/ml	1.000X	1 ml in 1000 ml		-7.	55 mg		200 mily E-didnyr-Glotallille
yes	84 Nucleotids	Guanine	5.6 mg	1M NaOH	56 mg/ml	10.000X	100 ul in 1000 ml			280 mg		
yes	48 Nucleotids	Uracil	23 mg	1M NaOH	23 mg/ml	1.000X	1 ml in 1000 ml			1.15 g		
yes	47 Nucleotids	Xanthine	3.8 mg	1M NaOH	38 mg/ml	10.000X	100 ul in 1000 ml		0,1 5 ml 1M NaOH	190 mg		
yes	83 Salts & Minerals	KCH3CO2 (Potassium acetal	0.9 g	H2O	90 g/I	100x	10 ml in 1000 ml		10 200 ml H2O	18 g	Filter sterilize	
yes	20 Salts & Minerals	FeSO4 . 7H2O	4 mg	10 mM HCl	40 mg/ml	10.000X	100 ul in 1000 ml			200 mg		
yes	*2 Salts & Minerals	MgCl2.6H2O	0,823 g	H2O	38,6 mg/ml	100X	10 ml in 1000 ml		10 200 ml H2O	7.72 g	Filter sterilize	MgCl2.6H2O
yes	*69 Salts & Minerals	ZnCl2	2,371 mg	H2O	5.8 mg/ml	1.250X	800 ul in 1000 ml		0,8 42,6 ml H2O	250 mg	Filter sterilize	ZnCl2 is quite insoluble!
yes	42 Salts & Minerals	Co(NO3)2 . 6H2O	1 mg	H2O	100 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	100 mg	Filter sterilize	
yes	*17 Salts & Minerals	AlK(SO4)2 *12 H20	0,185 mg	H2O	10 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	10 mg	Filter sterilize	AIK(S)4)2.12H2O
yes	*58 Salts & Minerals	Na2SeO3* 5H20	15 microgramm	H2O	1 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	1 mg	Filter sterilize !!	Na2SeO3.5H2O
yes	43 Salts & Minerals 108 Salts & Minerals	Na2WO4 . 2H2O NiCl2	0.1 mg	H2O H2O	10 mg/ml		10 ul in 1000 ml 100 ul in 1000 ml		0,01 1 ml H2O 0.1 10 ml H2O	10 mg	Filter sterilize Filter sterilize	
yes yes	41 Salts & Minerals	CaCl2 (anhydrous)	0.11 mg 30.2 mg	H2O	1.1 mg/ml 3 g/L	1.000.000X	10 ml in 1000 ml		10 200 ml H2O	11 mg 600 mg		
yes	57 Salts & Minerals	CoCl2·6H2O	0.19 mg	H2O	19 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	19 mg	Filter sterilize	
yes	16 Salts & Minerals	CuSO4 (anhydrous)/CuCl2		H2O	12 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	12 mg	Filter sterilize	
yes	31 Salts & Minerals	H3BO3	0.75 mg	H2O	37.5 mg/ml		10 ul in 1000 ml			37.5 mg	Filter sterilize	
yes		KI	0.11 mg	H2O	11 mg/ml		10 ul in 1000 ml		0,01 1 ml H2O	11 mg	Filter sterilize	
yes	27 Salts & Minerals	MnSO4 * H2O	5 mg	H2O	50 mg/ml		100 ul in 1000 ml		0,1 5 ml H2O	250 mg		
yes yes	34 Salts & Minerals 1 Salts & Minerals	(NH4)6Mo7O24 · 4H2O. K2SO4	0.19 mg 23 mg	H2O H2O	19 mg/ml 2.3 g/L		10 ul in 1000 ml 10 ml in 1000 ml		0,01 1 ml H2O 10 200 ml H2O	19 mg 460 mg	Filter sterilize Filter sterilize	
yes	63 Salts & Minerals	NaCl	0.81 g	H2O	81 g/L		10 ml in 1000 ml		10 200 ml H200	16,2 g	Filter sterilize	
yes	18 Salts & Minerals	Ammonium citrate dibasic		H2O	42,5 g/L	25X	40 ml in 1000 ml		40 400 ml H2O	17 g	Filter sterilize	
yes	*13 Salts & Minerals	FeCl3*6H20	5 mg	H2O	50 mg/ml	10.000X	100 ul in 1000 ml		0,1 5 ml H2O	250 mg	Filter sterilize	FeCl3.6H2O
yes	25 Salts & Minerals	MgSO4 * 7 H2O	30 mg	H2O	30 mg/ml	1000X	1 ml in 1000 ml		1 50 ml H2O	1.5 g	Filter sterilize	
yes	5 Salts & Minerals	NaHCO3	0.4 g	H2O	40 g/L	100X	10 ml in 1000 ml		10 200 ml H2O	8 g	Filter sterilize	
yes yes	28 Salts & Minerals 102 (-20C) Vitamins & Antioxidants	Na2MoO4 . 2H2O Mix vitamins	0.1 mg 2 mg	H2O	10 mg/ml	100.000X 100x	10 ul in 1000 ml *10 ml in 1000 ml		0,01 1 ml H2O	10 mg	Filter sterilize	+ + -
yes	98 Vitamins & Antioxidants	L-Glutathione reduced	15 mg	H2O	15 mg/ml		1 ml in 1000 ml			750 mg	Filter sterilize	
Yes	114 Vitamins & Antioxidants	Biotin	5 mg	0,03N NaOH	6.25 mg/ml	1250X	800 ul in 1000 ml			50 mg		
	115 Vitamins & Antioxidants	Pyrodoxin-HCl	3 mg	H2O	30 mg/ml	10.000X	100 ul in 1000 ml		0,1 1 ml H2O	30 mg	Filter sterilize	
yes	44 Vitamins & Antioxidants	Ascorbic acid	0.5 g	H2O	50 mg/ml	100X	10 ml in 1000 ml		10 200 ml H2O	10 g	Filter sterilize	
yes	104 (-20C) Vitamins & Antioxidants 51 Vitamins & Antioxidants	Pyridoxamine . 2 HCl	5 mg	H2O H2O	50 mg/ml	100.000X 100.000X	10 ul in 1000 ml 10 ul in 1000 ml		0,01 1 ml H2O 0,01 1 ml H2O	50 mg	Filter sterilize	
yes yes	51 Vitamins & Antioxidants 55 Vitamins & Antioxidants	p-Aminobenzoic acid Lipoic acid	50 μg 1.05 mg	DMSO	5 mg/ml 10.5 mg/ml	100.000X 10.000X	100 ul in 1000 ml		0,01 1 ml H2O 0,1 5 ml H2O	5 mg 52.5 mg	Filter sterilize Filter sterilize	+ + -
yes	95 (4C) Vitamins & Antioxidants	Vitamin B12	1.05 mg	H2O	0.1 mg/ml	1.000.000X	10 ul in 1000 ml		1 10 ml H2O	1 mg	Filter sterilize !!	
yes	90 (4C) Vitamins & Antioxidants	Vitamin K (menadione)	1 mg	DMSO	10 mg/ml	10.000X	100 ul in 1000 ml		0,1 25 ml DMSO	250 mg		
yes	77 SCFA	Acetic acid	1.7 mL						1,7			
yes	49 SCFA	Isovaleric acid	0.1 mL						0,1			
yes	24 SCFA 9 SCFA	Propionic acid Butyric acid	2 mL 2 mL						2	 		
yes yes	79 Buffer compounds	KH2PO4	13.609 g		136.09 g/L	10X	100 ml in 1000 ml	These go together	100 1 L H2O	136 09 0	g Filter sterilize	_
yes	*29 Buffer compounds	K2HPO4*3H20	8,47 g		64.8 g/L	10X			1 L H2O	64.8 g	,c. stermee	K2HPO4.3H2O
yes	22 Buffer compounds	Tricine	1.5 g		15 g/L	10X			1 L H2O	15 g		
yes	14 Buffer compounds	EDTA	12.34 mg	0.1 M NaOH	1.23 g/L	100X	10 ml in 1000 ml		10 200 ml H2O	246 mg		
yes	46 Buffer compounds	Nitrilotriacetic acid	7.34 mg	1 M NaOH	7.34 mg/ml	1000X	1 ml in 1000 ml		1 50 ml H2O	367 mg	Filter sterilize	
		-		1					347 653 H2O			
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