

PM1 Carbon Utilization Assays

Catalog #12111

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Negative Control	L-Arabinose	N-Acetyl-D- Glucosamine	D-Saccharic Acid	Succinic Acid	D-Galactose	L-Aspartic Acid	L-Proline	D-Alanine	D-Trehalose	D-Mannose	Dulcitol
B1 D-Serine	B2 D-Sorbitol	B3 Glycerol	B4 L-Fucose	B5 D-Glucuronic Acid	B6 D-Gluconic Acid	B7 D,L-α-Glycerol- Phosphate	B8 D-Xylose	B9 L-Lactic Acid	BIO Formic Acid	B11 D-Mannitol	B12 L-Glutamic Acid
C1 D-Glucose-6- Phosphate	C2 D-Galactonic Acid-γ-Lactone	C3 D,L-Malic Acid	C4 D-Ribose	C5 Tween 20	C6 L-Rhamnose	C7 D-Fructose	C8 Acetic Acid	C9 α-D-Glucose	C10 Maltose	C11 D-Melibiose	C12 Thymidine
D-1 L-Asparagine	D2 D-Aspartic Acid	D3 D-Glucosaminic Acid	D4 1,2-Propanediol	D5 Tween 40	D6 α-Keto-Glutaric Acid	D7 α-Keto-Butyric Acid	D8 α-Methyl-D- Galactoside	D9 α-D-Lactose	D10 Lactulose	D11 Sucrose	D12 Uridine
EI L-Glutamine	E2 m-Tartaric Acid	E3 D-Glucose-1- Phosphate	E4 D-Fructose-6- Phosphate	E5 Tween 80	E6 α-Hydroxy Glutaric Acid-γ- Lactone	E7 α-Hydroxy Butyric Acid	E8 ß-Methyl-D- Glucoside	E9 Adonitol	E10 Maltotriose	E11 2-Deoxy Adenosine	E12 Adenosine
F1 Glycyl-L-Aspartic Acid	F2 Citric Acid	F3 myo-inositol	F4 D-Threonine	F5 Fumaric Acid	F6 Bromo Succinic Acid	F7 Propionic Acid	F8 Mucic Acid	F9 Glycolic Acid	F10 Głyoxylic Acid	F11 D-Cellobiose	F12 Inosine
G1 Glycyl-L- Glutamic Acid	G2 Tricarballylic Acid	G3 L-Serine	G4 L-Threonine	G5 L-Alanine	G6 L-Alanyl-Glycine	G7 Acetoacetic Acid	G8 N-Acetyl-ß-D- Mannosamine	G9 Mono Methyl Succinate	G10 Methyl Pyruvate	G11 D-Malic Acid	G12 L-Malic Acid
H1 Glycyl-L-Proline	H2 p-Hydroxy Phenyl Acetic Acid	H3 m-Hydroxy Phenyl Acetic Acid	H4 Tyramine	H5 D-Psicose	H6 L-Lyxose	H7 Glucuronamide	H8 Pyruvic Acid	H9 L-Galactonic Acid-γ-Lactone	H10 D-Galacturonic Acid	H11 Phenylethyl-amine	H12 2-Aminoethanol

PM2A Carbon Utilization Assays

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Negative Control	Chondroitin Sulfate C	α-Cyclodextrin	ß-Cyclodextrin	γ-Cyclodextrin	Dextrin	Gelatin	Glycogen	Inulin	Laminarin	Mannan	Pectin
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
N-Acetyl-D- Galactosamine	N-Acetyl- Neuraminic Acid	ß-D-Allose	Amygdalin	D-Arabinose	D-Arabitol	L-Arabitol	Arbutin	2-Deoxy-D-Ribose	i-Erythritol	D-Fucose	3-0-ß-D- Galactopyranosyl-D- Arabinose
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Gentiobiose	L-Glucose	Lactitol	D-Melezitose	Maltitol	α-Methyl-D- Glucoside	ß-Methyl-D- Galactoside	3-Methyl Glucose	ß-Methyl-D- Glucuronic Acid	α-Methyl-D- Mannoside	ß-Methyl-D- Xyloside	Palatinose
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
D-Raffinose	Salicin	Sedoheptulosan	L-Sorbose	Stachyose	D-Tagatose	Turanose	Xylitol	N-Acetyl-D- Glucosaminitol	γ-Amino Butyric Acid	δ-Amino Valeric Acid	Butyric Acid
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Capric Acid	Caproic Acid	Citraconic Acid	Citramalic Acid	D-Glucosamine	2-Hydroxy Benzoic Acid	4-Hydroxy Benzoic Acid	ß-Hydroxy Butyric Acid	Glycolic Acid	α-Keto-Valeric Acid	Itaconic Acid	5-Keto-D- Gluconic Acid
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
D-Lactic Acid Methyl Ester	Malonic Acid	Melibionic Acid	Oxalic Acid	Oxalomalic Acid	Quinic Acid	D-Ribono-1,4- Lactone	Sebacic Acid	Sorbic Acid	Succinamic Acid	D-Tartaric Acid	L-Tartaric Acid
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Acetamide	L-Alaninamide	N-Acetyl-L- Glutamic Acid	L-Arginine	Glycine	L-Histidine	L-Homoserine	Hydroxy-LProline	L-Isoleucine	L-Leucine	L-Lysine	L-Methionine
H1	H2	Н3	H4	H5	H6	H7	Н8	Н9	H10	H11	H12
L-Ornithine	L-Phenylalanine	L-Pyroglutamic Acid	L-Valine	D,L-Carnitine	Sec-Butylamine	D,L-Octopamine	Putrescine	Dihydroxy Acetone	2,3-Butanediol	2,3-Butanedione	3-Hydroxy-2- Butanone



PM3B Nitrogen Utilization Assays

Catalog #12121

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Negative Control	Ammonium Formate		Sodium Nitrite	Urea	Biuret	L-Alanine	L-Arginine	L-Asparagine	L-Aspartic Acid	L-Cysteine	L-Glutamic Acid
rvegative Control	Ammonium omate	Socialitividite	Socialitivitate	Orea	Didlet	L-Alamine	L-Arginine	L-Asparagine	L-Aspai de Acid	L-Cystellie	L-Oldterric Acid
BI	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
L-Glutamine	Glycine	L-Histidine	L-Isoleucine	L-Leucine	L-Lysine	L-Methionine	L-Phenylalanine	L-Proline	L-Serine	L-Threonine	L-Tryptophan
L*Giutallille	Glycine	L-mstulile	L-IsoledCirie	L-Leucine	L-Lysine	L-Methiornie	L-Frielly laid fille	L-FIOIIIe	L-Serine	L-IIIIeoilille	L-Hyptophan
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
	L-Valine						D-Serine	D-Valine			
L-Tyrosine	L-Valine	D-Alanine	D-Asparagine	D-Aspartic Acid	D-Glutamic Acid	D-Lysine	D-Serine	D-Valine	L-Citrulline	L-Homoserine	L-Ornithine
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
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N-Acetyl-L-	N-Phthaloyl-L-	L-Pyroglutamic	Hydroxylamine	Methylamine	N-Amylamine	N-Butylamine	Ethylamine	Ethanolamine	Ethylenediamine	Putrescine	Agmatine
Glutamic Acid	Glutamic Acid	Acid									
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Histamine	ß-Phenylethyl-	Tyramine	Acetamide	Formamide	Glucuronamide	D,L-Lactamide	D-Glucosamine	D-Galactosamine	D-Mannosamine	N-Acetyl-D-	N-Acetyl-D-
	amine									Glucosamine	Galactosamine
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
N-Acetyl-D-	Adenine	Adenosine	Cytidine	Cytosine	Guanine	Guanosine	Thymine	Thymidine	Uracil	Uridine	Inosine
Mannosamine											
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Xanthine	Xanthosine	Uric Acid	Alloxan	Allantoin	Parabanic Acid	D,L-α-Amino-N-	γ-Amino-N-Butyric	ε-Amino-N-	D,L-α-Amino-	δ-Amino-N-Valeric	α-Amino-N-Valeric
						Butyric Acid	Acid	Caproic Acid	Caprylic Acid	Acid	Acid
						,					
H1	H2	Н3	H4	H5	Н6	H7	Н8	Н9	H10	H11	H12
Ala-Asp	Ala-Gin	Ala-Glu	Ala-Gly	Ala-His	Ala-Leu	Ala-Thr	Gly-Asn	Gly-Gln	Gly-Glu	Gly-Met	Met-Ala
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PM4A Phosphorus and Sulfur Utilization Assays

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A1 Negative Control	A 2 Sodium Phosphate	A3 Tetrasodium	A4 Trimeta	A5 Tripoly	A6 Triethyl	A7 Hypophosphite	A8 Adenosine-2'-	A9 Adenosine-3'-	A10 Adenosine-5'-	A11 Adenosine-2',3'-	A12 Adenosine-3',5'-
		pyrophosphate	Phosphate	Phosphate	Phosphate		monophosphate	monophosphate	monophosphate	cyclic monophosphate	cyclic monophosphate
BI Thiophosphate	B2 Dithiophosphate	B3 D,L-α-Glycerol Phosphate	B4 ß-Glycerol Phosphate	B5 Carbamyl Phosphate	B6 D-2-Phospho- Glyceric Acid	B7 D-3-Phospho- Glyceric Acid	B8 Guanosine-2'- monophosphate	B9 Guanosine-3'- monophosphate	BIO Guanosine-5'- monophosphate	B11 Guanosine-2',3'- cyclic monophosphate	B12 Guanosine-3',5'- cyclic monophosphate
C1 Phosphoenol Pyruvate	C2 Phospho-Glycolic Acid	C3 D-Glucose-1- Phosphate	C4 D-Glucose-6- Phosphate	C5 2-Deoxy-D- Glucose-6- Phosphate	C6 D-Glucosamine- 6-Phosphate	C7 6-Phospho- Gluconic Acid	C8 Cytidine-2- monophosphate	C9 Cytidine-3- monophosphate	C10 Cytidine-5'- monophosphate	C11 Cytidine-2',3'- cyclic monophosphate	C12 Cytidine-3',5'- cyclic monophosphate
D1 D-Mannose-1- Phosphate	D2 D-Mannose-6- Phosphate	D3 Cysteamine-S- Phosphate	D4 Phospho-L- Arginine	D5 O-Phospho-D- Serine	D6 O-Phospho-L- Serine	D7 O-Phospho-L- Threonine	D8 Uridine-2'- monophosphate	D9 Uridine-3'- monophosphate	D10 Uridine-5'- monophosphate	D11 Uridine-2',3'-cyclic monophosphate	D12 Uridine-3',5'-cycli monophosphate
E1 O-Phospho-D- Tyrosine	E2 O-Phospho-L- Tyrosine	E3 Phosphocreatine	E4 Phosphocholine chloride	E5 O-Phosphoryl- Ethanolamine	E6 Phosphono Acetic Acid	E7 2-Aminoethyl Phosphonic Acid	E8 Methylene Diphosphonic Acid	E9 Thymidine-3'- monophosphate	E10 Thymidine-5'- monophosphate	E11 Inositol Hexaphosphate	E12 Thymidine 3',5'- cyclic monophosphate
FI Negative Control	F2 Sodium Sulfate	F3 Sodium thiophosphate	F4 Tetrathionate	F5 Thiophosphate	F6 Dithiophosphate	F7 L-Cysteine	F8 D-Cysteine	F9 L-Cysteinyl- Glycine	F10 L-Cysteic Acid	F11 Cysteamine	F12 L-Cysteine Sulfinic Acid
G1 N-Acetyl-L- Cysteine	G2 S-Methyl-L- Cysteine	G3 Cystathionine	G4 Lanthionine	G5 Glutathione	G6 D,L-Ethionine	G7 L-Methionine	G8 D-Methionine	G9 Glycyl-L- Methionine	G10 N-Acetyl-D,L- Methionine	G11 L-Methionine Sulfoxide	G12 L-Methionine Sulfone
H1 L-Djenkolic Acid	H2 Thiourea	H3 1-Thio-ß-D-Glucose	H4 D,L-Lipoamide	H5 Taurocholic Acid	H6 Taurine	H7 Hypotaurine	H8 m-Amino benzene sulfonic acid	H9 Butane Sulfonic Acid	H10 2-Hydroxyethane Sulfonic Acid	H11 Methane Sulfonic Acid	H12 Tetramethylene Sulfone



PM5 Biosynthetic Pathway/Nutrient Stimulation

Catalog #12141

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A1 Negative Control	A2 Positive Control	A3 L-Alanine	A4 L-Arginine	A5 L-Asparagine	A6 L-Aspartic Acid	A7 L-Cysteine	A8 L-Glutamic Acid	A9 Adenosine-3',5'- cyclic monophosphate	A10 Adenine	A11 Adenosine	A12 2'-Deoxy Adenosine
B1 L-Glutamine	B2 Glycine	B3 L-Histidine	B4 L-Isoleucine	B5 L-Leucine	B6 L-Lysine	B7 L-Methionine	B8 L-Phenylalanine	B9 Guanosine-3',5'- cyclic monophosphate	BIO Guanine	B11 Guanosine	B12 2'-Deoxy Guanosine
C1 L-Proline	C2 L-Serine	C3 L-Threonine	C4 L-Tryptophan	C5 L-Tyrosine	C6 L-Valine	C7 L-Isoleucine + L- Valine	C8 trans-4-Hydroxy L-Proline	C9 5-Amino-4-imidazole carboxamide	C10 Hypoxanthine	C11 Inosine	C12 2'-Deoxy Inosine
D1 L-Ornithine	D2 L-Citrulline	D3 Chorismic Acid	D4 (-)Shikimic Acid	D5 L-Homoserine Lactone	D6 D-Alanine	D7 D-Aspartic Acid	D8 D-Glutamic Acid	D9 2,6-Diaminopimelic acid	D10 Cytosine	D11 Cytidine	D12 2'-Deoxy Cytidine
E1 Putrescine	E2 Spermidine	E3 Spermine	E4 Pyridoxine	E5 Pyridoxal	E6 Pyridoxamine	E7 ß-Alanine	E8 D-Pantothenic Acid	E9 Orotic Acid	E10 Uracil	E11 Uridine	E12 2'-Deoxy Uridine
F1 Quinolinic Acid	F2 Nicotinic Acid	F3 Nicotinamide	F4 ß-Nicotinamide Adenine Dinucleotide	F5 δ-Amino-Levulinic Acid	F6 Hematin	F7 Deferoxamine Mesylate	F8 D-(+)-Glucose	F9 N-Acetyl D-Glucosamine	F10 Thymine	F11 Glutathione (reduced form)	F12 Thymidine
G1 Oxaloacetic Acid	G2 D-Biotin	G3 Cyano- Cobalamine	G4 p-Amino-Benzoic Acid	G5 Folic Acid	G6 Inosine + Thiamine	G7 Thiamine	G8 Thiamine Pyrophosphate	G9 Riboflavin	G10 Pyrrolo-Quinoline Quinone	G11 Menadione	G12 myo-inositol
H1 Butyric Acid	H2 D,L-α-Hydroxy- Butyric Acid	H3 α-Keto-Butyric Acid	H4 Caprylic Acid	H5 D,L-α-Lipoic Acid (oxidized form)	H6 DL-Mevalonic acid lactone	H7 D,L-Carnitine	H8 Choline	H9 Tween 20	H10 Tween 40	H11 Tween 60	H12 Tween 80

PM6 Nitrogen Utilization Assays

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A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
legative Control	Positive Control: L-	Ala-Ala	Ala-Arg	Ala-Asn	Ala-Glu	Ala-Gly	Ala-His	Ala-Leu	Ala-Lys	Ala-Phe	Ala-Pro
	Glutamine										
	B2			DC	DC.		. DO	B9	DIO.		B12
B1		B3	B4	B5	B6	B7	B8		B10	B11	
Ala-Ser	Ala-Thr	Ala-Trp	Ala-Tyr	Arg-Ala	Arg-Arg	Arg-Asp	Arg-Gln	Arg-Glu	Arg-lle	Arg-Leu	Arg-Lys
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Arg-Met	Arg-Phe	Arg-Ser	Arg-Trp	Arg-Tyr	Arg-Val	Asn-Glu	Asn-Val	Asp-Asp	Asp-Glu	Asp-Leu	Asp-Lys
			1	-							
D1	D2	D3	D4	D5 Gln-Gln	D6 Gln-Gly	D7	D8	D9	D10	D11	D12
Asp-Phe	Asp-Trp	Asp-Val	Cys-Gly	Gin-Gin	Gln-Gly	Glu-Asp	Glu-Glu	Glu-Gly	Glu-Ser	Glu-Trp	Glu-Tyr
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Glu-Val	Gly-Ala	Gly-Arg	Gly-Cys	Gly-Gly	Gly-His	Gly-Leu	Gly-Lys	Gly-Met	Gly-Phe	Gly-Pro	Gly-Ser
-1	F2	F3	F4	F5	FC	F7	F8	F9	F10	F11	F12
F1 Gly-Thr	Gly-Trp	Gly-Tyr	Gly-Val	His-Asp	F6 His-Gly	His-Leu	His-Lys	His-Met	His-Pro	His-Ser	His-Trp
Jiy-Thr	Giy-ITP	Giy-Tyr	Giy-v ai	nis-Asp	HIS-GIY	HIS-Leu	nis-Lys	mis-iviet	HIS-PTO	riis-Ser	mis-irp
F1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
His-Tyr	His-Val	lle-Ala	lle-Arg	lle-Gln	lle-Gly	lle-His	lle-lle	lle-Met	lle-Phe	lle-Pro	lle-Ser
H1	H2	H3	H4	H5	H6	H7	Н8	H9	H10	H11	H12
nı le-Trp	lle-Tyr	lle-Val	Leu-Ala	Leu-Arg	Leu-Asp	Leu-Glu	Leu-Gly	Leu-lle	Leu-Leu	Leu-Met	Leu-Phe
ie-irp	ile-Tyr	ile-vai	Leu-Aid	Leu-Arg	Leu-Asp	Leu-Gid	Leu-Gly	Leu-ile	Leu-Leu	Leu-Met	Leu-Pne
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PM7 Nitrogen Utilization Assays

Catalog #12182

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Negative Control		Leu-Ser	Leu-Trp	Leu-Val	Lys-Ala	Lys-Arg	Lys-Glu	Lys-lle	Lys-Leu	Lys-Lys	Lys-Phe
rvegative Control	Glutamine	Lea-Sei	Lea-IIP	Leu-vai	Lys Ald	Lyskig	Lys-Old	Lysile	Lys-Leu	Lys-Lys	Lysine
	Giutamine										
BI	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
Lys-Pro	Lys-Ser	Lys-Thr	Lys-Trp	Lys-Tyr	Lys-Val	Met-Arg	Met-Asp	Met-Gln	Met-Glu	Met-Gly	Met-His
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Met-lle	Met-Leu	Met-Lys	Met-Met	Met-Phe	Met-Pro	Met-Trp	Met-Val	Phe-Ala	Phe-Gly	Phe-lle	Phe-Phe
met ne	met zed	ct Lys	met met		cc 110	met np	met vai	The Tha	The Oly	THE RE	11101110
D1	D2	D3	D4	D5	D.C	D7	D.O.	D9	D10	D11	D12
					D6		D8				D12
Phe-Pro	Phe-Ser	Phe-Trp	Pro-Ala	Pro-Asp	Pro-Gln	Pro-Gly	Pro-Hyp	Pro-Leu	Pro-Phe	Pro-Pro	Pro-Tyr
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Ser-Ala	Ser-Gly	Ser-His	Ser-Leu	Ser-Met	Ser-Phe	Ser-Pro	Ser-Ser	Ser-Tyr	Ser-Val	Thr-Ala	Thr-Arg
	,							,			,
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Thr-Glu		Thr-Leu		Thr-Pro							
inr-Giu	Thr-Gly	Inr-Leu	Thr-Met	Inr-Pro	Trp-Ala	Trp-Arg	Trp-Asp	Trp-Glu	Trp-Gly	Trp-Leu	Trp-Lys
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Trp-Phe	Trp-Ser	Trp-Trp	Trp-Tyr	Tyr-Ala	Tyr-Gln	Tyr-Glu	Tyr-Gly	Tyr-His	Tyr-Leu	Tyr-Lys	Tyr-Phe
				I							
H1	H2	H3	H4	H5	H6	H7	Н8	Н9	H10	H11	H12
111						Val-His	Val-lle	Val-Leu			
T T	Torre Trans										
Tyr-Trp	Tyr-Tyr	Val-Arg	Val-Asn	Val-Asp	Val-Gly	v ai-mis	V at-lie	vai-Leu	Val-Tyr	Val-Val	γ-Glu-Gly
Tyr-Trp	Tyr-Tyr	Val-Arg	Val-Asn	Val-Asp	Val-Gly	Val-mis	v ai-lie	vai-Leu	vai-iyr	Val-Val	γ-Glu-Gly
Tyr-Trp	Tyr-Tyr	Val-Arg	Val-Asn	Val-Asp	Val-Gly	Val-rus	v al-ile	vai-Leu	Val-Tyr	Val-Val	γ-Glu-Gly

PM8 Nitrogen Utilization Assays

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A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Negative Control	Positive Control: L- Glutamine	Ala-Asp	Ala-Gln	Ala-lle	Ala-Met	Ala-Val	Asp-Ala	Asp-Gln	Asp-Gly	Glu-Ala	Gly-Asn
		B3	B4	BS	B6	B7	B8	B9	BIO	B11	B12
BI	B2										
Gly-Asp	Gly-lle	His-Ala	His-Glu	His-His	lle-Asn	lle-Leu	Leu-Asn	Leu-His	Leu-Pro	Leu-Tyr	Lys-Asp
C1	C2	C3 Met-Thr	C4 Met-Tyr	C5	C6 Phe-Glu	C7 Gln-Glu	C8 Phe-Met	C9	C10 Phe-Val	C11 Pro-Arg	C12 Pro-Asn
Lys-Gly	Lys-Met	Met-Ihr	Met-Tyr	Phe-Asp	Phe-Glu	Gin-Giu	Phe-Met	Phe-Tyr	Phe-Val	Pro-Arg	Pro-Asn
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Pro-Glu	Pro-lle	Pro-Lys	Pro-Ser	Pro-Trp	Pro-Val	Ser-Asn	Ser-Asp	Ser-Gln	Ser-Glu	Thr-Asp	Thr-Gln
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Thr-Phe	Thr-Ser	Trp-Val	Tyr-lle	Tyr-Val	Val-Ala	Val-Gln	Val-Glu	Val-Lys	Val-Met	Val-Phe	Val-Pro
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Val-Ser	ß-Ala-Ala	ß-Ala-Gly	ß-Ala-His	Met-ß-Ala	ß-Ala-Phe	D-Ala-D-Ala	D-Ala-Gly	D-Ala-Leu	D-Leu-D-Leu	D-Leu-Gly	D-Leu-Tyr
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
γ-Glu-Gly	γ-D-Glu-Gly	Gly-D-Ala	Gly-D-Asp	Gly-D-Ser	Gly-D-Thr	Gly-D-Val	Leu-ß-Ala	Leu-D-Leu	Phe-ß-Ala	Ala-Ala-Ala	D-Ala-Gly-Gly
H1	H2	нз	H4	H5	Н6	H7	Н8	Н9	HIO	H11	H12
Gly-Gly-Ala	Gly-Gly-D-Leu	Gly-Gly-Gly	Gly-Gly-lle	Gly-Gly-Leu	Gly-Gly-Phe	Val-Tyr-Val	Gly-Phe-Phe	Leu-Gly-Gly	Leu-Leu	Phe-Gly-Gly	Tyr-Gly-Gly

PM9 Osmotic/Ionic Response Assays

Catalog #12161

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A1	A2	A3	A4		A6	A7	A8	A9	A10	A11	A12
NaCI1%	NaCl 2%	NaCI3%	NaCl4%	NaCI5%	NaCI 5.5%	NaCI 6%	NaCI 6.5%	NaCI7%	NaCI8%	NaCI9%	NaCI10%
B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
NaCI6%	NaCl 6% + Betaine	NaCI 6% +	NaCI 6% +	NaCl 6% + Dimethyl	NaCl 6% + MOPS	NaCl 6% + Ectoine	NaCl 6% + Choline	NaCI 6% +	NaCI 6% + Creatine	NaCI6% +	NaCl 6% +
		N-N Dimethyl	Sarcosine	sulphonyl				Phosphoryl Choline		Creatinine	L-Carnitine
		Glycine		propionate				., .,			
		Oly Carlo		propionate							
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
NaCI6% + KCI		NaCl 6% + N-Acetyl		NaCl 6% + y-Amino-		NaCl 6% + Glycerol	NaC16% +	NaCI 6% +	NaCI 6% +	NaCI6% +	NaCl 6% +
110010101101	11001070 - 21101110	L-Glutamine	Glutamic Acid	N-Butyric Acid	Glutathione	inacion on ciyeeror	Trehalose	Trimethylamine- N-	Trimethylamine	Octopine	Trigonelline
i		L-Old tallille	Old tallic Acid	IV-Dutylic Acid	Oldtathlone		i elialose	oxide	Trime criy idrinine	Octopine	rrigoriemne
								oxide			
D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
Potassium chloride	Potassium chloride	Potassium chloride	Potassium chloride	Sodiumsulfate	Sodiumsulfate	Sodium sulfate	Sodium sulfate	Ethylene glycol	Ethylene glycol	Ethylene glycol	Ethylene glycol
3%	4%	5%	6%	2%	3%	4%	5%	5%	10%	15%	20%
376	476	370	076	270	370	476	376	376	10%	1376	20%
E1	E2	E3	E4	E5	E6	E7	E8	E9	E10	E11	E12
Sodium formate	Sodium formate	Sodium formate	Sodium formate	Sodium formate	Sodium formate	Urea	Urea	Urea	Urea	Urea	Urea
									5%	6%	7%
1%	2%	3%	4%	5%	6%	2%	3%	4%	5%	6%	7%
F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Sodium Lactate	Sodium Lactate	Sodium Lactate	Sodium Lactate	SodiumLactate	Sodium Lactate	Sodium Lactate	Sodium Lactate	Sodium Lactate	Sodium Lactate	Sodium Lactate	Sodium Lactate
1%	2%	3%	4%	5%	6%	6.5%	7%	7.5%	8%	8.5%	9%
170	270	370	470	376	0.0	0.5 /6	7 /0	7.5%	670	6.5 /6	576
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
Sodium	Sodium	Sodium	Sodium	Sodium	Sodium	Sodium	Sodium	Ammonium sulfate	Ammonium sulfate	Ammonium sulfate	Ammonium sulfate
Phosphate pH 7	Phosphate pH 7	Phosphate pH 7	Phosphate pH 7	Benzoate pH 5.2	Benzoate pH 5.2	Benzoate pH 5.2	Benzoate pH 5.2	pH 8	pH 8	pH 8	pH 8
20 mM	50 mM	100 mM	200 mM	20 mM	50 mM	100 mM	200 mM	10 mM	20 mM	50 mM	100 mM
20	33	100.1811	200/1811	20	55		20011111		20		
H1	H2	нз	H4	H5	H6	H7	Н8	Н9	H10	H11	H12
Sodium Nitrate	Sodium Nitrate	Sodium Nitrate	Sodium Nitrate	Sodium Nitrate	Sodium Nitrate	Sodium Nitrite	Sodium Nitrite	Sodium Nitrite	Sodium Nitrite	Sodium Nitrite	Sodium Nitrite
10 mM	20 mM	40 mM	60 mM	80 mM	100 mM	10 mM	20 mM	40 mM	60 mM	80 mM	100 mM
1011111	2011111		ooniin	0011111	10011111	1011111	201111	4011111	00111111	0011111	10011111
	I										

PM10 pH Response Assays

Catalog #12162

											09 // 1210
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +	Triethanolamine +
Glutaric Acid, pH 3.5	Glutaric Acid, pH 4	Glutaric Acid, pH 4.5	Glutaric Acid, pH 5	Glutaric Acid, pH 5.5	Glutaric Acid, pH 6	Glutaric Acid, pH 7	Glutaric Acid, pH 8	Glutaric Acid, pH 8.5	Glutaric Acid, pH 9	Glutaric Acid, pH 9.5	Glutaric Acid, pH 10
BI	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
pH 4.5	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + Glycine	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + L-Lysine
	L-Alanine	L-Arginine	L-Asparagine	L-Aspartic	L-Glutamic Acid	L-Glutamine		L-Histidine	L-Isoleucine	L-Leucine	
				Acid							
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + L-Serine	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + L-Valine	pH 4.5 + Hydroxy-	pH 4.5 +	pH 4.5 +	pH 4.5 +
L-Methionine	L-Phenylalanine	L-Proline		L-Threonine	L-Tryptophan	L-Citrulline		L-Proline	L-Ornithine	L-Homoarginine	L-Homoserine
D-1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12
pH 4.5 + Anthranilic	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + D-Lysine	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 +	pH 4.5 + Urea
Acid	L-Norleucine	L-Norvaline	α-Amino-N-Butyric	p-Amino-Benzoic	L-Cysteic Acid		5-Hydroxy	5-Hydroxy	D,L-Diamino-Pimelic	Trimethylamine-N-	
			Acid	Acid			Lysine	Tryptophan	Acid	oxide	
E1	E2	E3	E4		E6	E7	E8	E9	E10	E11	E12
pH 9.5	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 + Glycine	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 + L-Lysine
	L-Alanine	L-Arginine	L-Asparagine	L-Aspartic Acid	L-Glutamic Acid	L-Glutamine		L-Histidine	L-Isoleucine	L-Leucine	
FI	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 + L-Serine	pH 9.5 +	pH 9.5 +	pH 9.5 +	pH 9.5 + L-Valine	pH 9.5 + Hydroxy-	pH 9.5 +	pH 9.5 +	pH 9.5 +
L-Methionine	L-Phenylalanine	L-Proline		L-Threonine	L-Tryptophan	L-Tyrosine		L-Proline	L-Ornithine	L-Homoarginine	L-Homoserine
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
pH 9.5 + Anthranilic	pH 9.5 +	pH 9.5 +	pH 9.5 + Agmatine	pH 9.5 +	pH 9.5 + Putrescine	pH 9.5 + Histamine	pH 9.5 +	pH 9.5 + Tyramine	pH 9.5 + Creatine	pH 9.5 +	pH 9.5 + Urea
Acid	L-Norleucine	L-Norvaline		Cadaverine			Phenylethylamine			Trimethylamine-N-	
										oxide	
H1	H2	НЗ	H4	Н5	Н6	H7	Н8	Н9	H10	H11	H12
X-Caprylate	X-α-D-Glucoside	X-β-D- Glucoside	X-α-D-Galactoside	X-β-D-Galactoside	X-α-D-Glucuronide	X-β-D-Glucuronide	X-β-D-	X-β-D-	X-α-D-Mannoside	X-PO4	X-SO4
							Glucosaminide	Galactosaminide			
				l	I				l	I	



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