

APPENDICES

APPENDICES

Appendix 1 : A GN and GP Microplate with 95 Carbon Source Utilisation Tests.

Tests.

GN MicroPlate™

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	
water	D-cyclodextrin	deixin	glycogen	inulin 4D	inulin 8D	N-acetyl-D-galactosamine	N-acetyl-D-glucosamine	arabinof	L-arabinose	D-arabitol	cellobiose	
B1	D-xylofuranol	D-fructose	L-fucose	D-galactose	D-gentobiose	D-glucose	D-inositol	D-lactose	lactulose	mallose	D-mannitol	D-mannose
C1	D-methyl-D-glucoside	D-glucose	D-xylose	D-raffinose	L-rhamnose	D-sorbitol	D-sucrose	D-trehalose	turannose	xylof	methyl pyruvate	mono-methyl succinate
D1	D-glucuronic acid	D-glucuronic acid lactone	D-galacturonic acid	D-galacturonic acid lactone	D-glucuronic acid	D-glucuronic acid	D-glucosaminic acid	D-glucuronic acid	D-glucuronic acid	D-hydroxybutyric acid	D-hydroxybutyric acid	D-hydroxybutyric acid
E1	p-hydroxy phenylacetic acid	lactic acid	alpha-keto butyric acid	alpha-keto glutaric acid	alpha-keto valeric acid	D,L-lactacilic acid	malonic acid	propionic acid	quinic acid	D-saccharic acid	sebacic acid	succinic acid
F1	bromo succinic acid	succinamic acid	glutaramide	alanaramide	D-alanine	L-alanine	L-alanyl-glycine	L-asparagic acid	L-asparagic acid	L-glutamic acid	glycyl-L-aspartic acid	glycyl-L-glutamic acid
G1	L-histidine	hydroxy L-proline	L-leucine	L-ornithine	L-phenylalanine	L-proline	L-pyrroglutamic acid	D-serine	L-serine	L-threonine	D,L-carnitine	gamma amino butyric acid
H1	uracanic acid	inosine	uridine	thymidine	phenyl ethylamine	putrescine	2-amino ethanol	2,3-butandiol	glycerol	D,L-glycerol phosphate	glucose-1-phosphate	glucose-6-phosphate

GP MicroPlate™

A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12		
water	D-cyclodextrin	D-cyclodextrin	deixin	glycogen	inulin	mannan	inulin 4D	inulin 8D	N-acetyl-D-glucosamine	N-acetyl-D-mannosamine	amygdalin		
B1	L-arabinose	D-arabitol	arabin	cellobiose	D-fucose	D-galactose	D-galacturonic acid	D-gentobiose	D-glucuronic acid	alpha-D-glucose	D-inositol		
C1	alpha-D-fructose	lactulose	mallose	malteriose	D-mannitol	D-melctose	D-melctose	D-melctose	alpha-methyl-D-glucoside	alpha-methyl-D-glucoside	alpha-methyl-D-glucoside		
D1	beta-methyl-D-glucoside	alpha-methyl-D-mannoside	galactoside	D-glucose	D-raffinose	L-rhamnose	D-ribose	sakcin	stachyrosian	D-sorbitol	stachyose	sucrose	
E1	D-lyxose	D-xylulose	xylofuranol	xylof	D-xylose	acetic acid	D-hydroxybutyric acid	D-hydroxybutyric acid	D-hydroxybutyric acid	D-hydroxyphenyl acetic acid	alpha-keto glutaric acid	alpha-keto valeric acid	
F1	lactamide	D-lactic acid methyl ester	L-lactic acid	D-malic acid	L-malic acid	methyl pyruvate	mono methyl succinate	propionic acid	pyruvic acid	succinamic acid	succinic acid	N-acetyl-L-glutamic acid	
G1	alanaramide	D-alanine	L-alanine	L-alanyl-glycyl	L-asparagine	L-glutamic acid	glycyl-L-glutamic acid	L-pyrroglutamic acid	L-serine	putrescine	2,3-butandiol	glycerol	
H1	alanosamine	2-thioxy alanosamine	basine	Pyrimidine	uridine	sterosine-S-mono-phosphate	thymidine-S-mono-phosphate	uridine-S-mono-phosphate	uridine-S-phosphate	uridine-S-phosphate	glucose-1-phosphate	glucose-6-phosphate	D,L-glycerol phosphate

Appendix 2 : Identification of Bacterial Isolate K1B1 Based on Biolog's Microlog Computer Programme.

MICROLOG (TM) 3 RELEASE 3.50

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Date       : 31/05/97
Hour      : 24
Plate Type : GN
Media Type : MA 2216E
Plate #   : 8
Strain Name : K1B1
Strain #   : ?
Other Info : ?
Input Mode : Reader : BIOLOG MICROSTATION
Data Base  : MicroLog GN
    
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POSITIVE/NEGATIVE DATA

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XXX = percent change in optical density versus A1 control well
<XXX> = positive, {XXX} = borderline, XXX = negative
-XXX = percent change negative
XXX+ = data negative or borderline, "=" ID choice positive > 90% of time
XXX- = data positive or borderline, "=" ID choice positive < 10% of time
    
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	1	2	3	4	5	6	7	8	9	10	11	12
A	0	9	{ 45-	34	-23	-31	5	< 67-	9	{ 55-	{ 28-	31
B	0	< 60>	{ 30-	< 58>	16	< 73>	-11	21	9	< 60>	17	< 53>
C	14	8	< 70>	3	4	26	{ 29}	10	{ 50}	3	< 58>	{ 38}
D	{ 37+	8	-1	-23	7	25	12	4	15	-19	< 83>	18
E	-52	-43	-12	32	5	< 59>	2	{ 44}	10	9	-68	< 61>
F	{ 29+	< 79>	8	< 63>	19	{ 36}	< 49>	< 63>	{ 38}	< 67>	12	{ 32-
G	-2	0	-4	8	2	11	29	-8	< 77>	-11	12	17
H	30	< 53>	{ 35}	{ 44+	-33	13	-2	6	21	7	13	27

BIO-NUMBER : 1024-2505-1012-0002-0121-2464-0010-2400

SPECIES IDENTIFICATION : DELEYA AESTA

	CLOSEST SPECIES	SIM	DIST	AVG	MAX
=>	1) DELEYA AESTA	0.798	3.035	1.250	3.313
	2) XANTHOMONAS CAMPESTRIS PV VITIANS C	0.000	6.039	0.500	2.088
	3) VIBRIO HOLLISAE	0.000	6.171	0.906	3.881
	4) XANTHOMONAS ORYZAE PV ORYZICOLA B	0.000	6.182	1.047	4.153
	5) JANTHINOBACTERIUM LIVIDUM A	0.000	6.686	0.625	4.137
	6) SUTTONELLA INDOLOGENES	0.000	6.892	0.417	5.637
	7) JANTHINOBACTERIUM LIVIDUM B	0.000	7.149	0.688	2.931
	8) VIBRIO ORDALII	0.000	7.166	0.208	2.325
	9) XANTHOMONAS CAMPESTRIS PV VESICATORIA B	0.000	7.239	1.500	2.725
	10) XANTHOMONAS CAMPESTRIS PV TRANSLUCENS	0.000	7.448	0.688	2.737
	other :	-----	-----	-----	-----

Appendix 3 : Identification of Bacterial Isolate M1B26 Based on Biolog's

Microlog Computer Programme.

MICROLOG (TM) 3 RELEASE 3.50

Date : 31/05/97
 Hour : 24
 Plate Type : GN
 Media Type : MA 2216E
 Plate # : 15
 Strain Name : MIB26
 Strain # : ?
 Other Info : ?
 Input Mode : Reader : BIOLOG MICROSTATION
 Data Base : MicroLog GN

POSITIVE/NEGATIVE DATA

XXX = percent change in optical density versus A1 control well
 <XXX> = positive, {XXX} = borderline, XXX = negative
 -XXX = percent change negative
 XXX+ = data negative or borderline, "=" ID choice positive > 90% of time
 XXX- = data positive or borderline, "=" ID choice positive < 10% of time

	1	2	3	4	5	6	7	8	9	10	11	12
A	0	10	{ 61-	{ 41-	-26	-43	10	{ 58-	8	<102-	{ 29-	{ 46-
B	-5	< 77>	{ 23-	{ 47}	2	< 75>	-2	17	27	{ 51}	3	< 70>
C	17	14	{ 68}	6	3	{ 31-	{ 42}	4	{ 66}	11	< 80>	{ 38}
D	{ 38+	11	1	-31	3	25	10	1	12	-5	<116>	11
E	-46	-34	-1	34	9	{ 47+	9	{ 42}	11	9	-55	< 79>
F	{ 39+	< 74>	3	< 72>	20	{ 46}	{ 37}	< 88>	27	<107>	14	{ 39-
G	4	-4	-8	3	-6	23	{ 44-	18	<107>	14	13	10
H	27	{ 57}	{ 37}	{ 52+	-25	8	5	-5	{ 28-	14	19	{ 44-

BIO-NUMBER : 1024-2505-1012-0002-0001-2424-0010-2400

SPECIES IDENTIFICATION : DELEYA AESTA

CLOSEST SPECIES :	SIM.	DIST.	AVG.	MAX
=> 1) DELEYA AESTA	0.874	1.851	1.250	3.313
2) XANTHOMONAS ORYZAE PV ORYZICOLA B	0.001	4.182	1.047	4.153
3) JANTHINOBACTERIUM LIVIDUM B	0.001	4.315	0.688	2.931
4) XANTHOMONAS CAMPESTRIS PV VITIANS C	0.000	4.779	0.500	2.088
5) BRUCELLA ABORTUS STRAIN 19	0.000	4.829	0.646	2.769
6) AEROMONAS DNA GROUP 11	0.000	5.140	0.813	3.819
7) BRUCELLA ABORTUS BIOVAR 2	0.000	5.159	1.563	5.563
8) JANTHINOBACTERIUM LIVIDUM A	0.000	5.395	0.625	4.137
9) VIBRIO HOLLISAE	0.000	5.421	0.906	3.881
10) PSEUDOMONAS BEIJERINCKII	0.000	5.492	0.083	2.350
other :				

Appendix 4 : Identification of Bacterial Isolate M1B29 Based on Biolog's

Microlog Computer Programme.

MICROLOG (TM) 3 RELEASE 3.50

Date : 31/05/97
 Hour : 24
 Plate Type : GN
 Media Type : MA 2216E
 Plate # : 3
 Strain Name : M1B29
 Strain # : ?
 Other Info : ?
 Input Mode : Reader : BIOLOG MICROSTATION
 Data Base : MicroLog GN

POSITIVE/NEGATIVE DATA

XXX = percent change in optical density versus A1 control well
 <XXX> = positive, {XXX} = borderline, XXX = negative
 -XXX = percent change negative
 XXX+ = data negative or borderline, "=" ID choice positive > 90% of time
 XXX- = data positive or borderline, "=" ID choice positive < 10% of time

	1	2	3	4	5	6	7	8	9	10	11	12
A	0	19	31	19 { 37}	-2	-10	3	14	{ 38- { 60}	28		
B	8 < 92>	11 { 59}	6 <101>	{ 47}	11	{ 41}	{ 64}	< 82>	{ 52}			
C	5	-7 { 79}	5	8	11	3	8	{ 46}	10 < 90>	{ 39+}		
D	22 { 60}	{ 67}	-1	22	15	{ 76+}	7	-7	-1	< 98>	{ 32}	
E	-27	-52	2 { 72}	-1	{ 50}	{ 47- { 46-	15	3	-31	{ 57+}		
F	< 86>	< 82>	2 { 33-	{ 53+}	{ 42}	< 82>	< 78>	< 85>	{ 78+}	19	< 88>	
G	8	-3	26	{ 45-	7	{ 53}	{ 45}	6	{ 65}	22	16	{ 45}
H	-4	{ 68}	{ 47}	10	-23	16	24	18	{ 74+}	25	1	15

BIO-NUMBER : 0002-2507-1002-3042-0400-6275-0010-2010

SPECIES IDENTIFICATION : DELEYA MARINA

CLOSEST SPECIES :	SIM	DIST	AVG	MAX
=> 1) DELEYA MARINA	0.975	0.373	1.125	3.475
2) ALCALIGENES FAECALIS SS HOMARI	0.000	3.741	0.750	2.338
3) DELEYA AESTA	0.000	4.389	1.250	3.313
4) ACINETOBACTER CALCOACETICUS/GEN 1	0.000	4.574	0.750	2.900
5) XANTHOMONAS BROWN BLOTCH	0.000	4.722	0.750	1.106
6) BURKHOLDERIA SOLANACEARUM B	0.000	4.759	0.250	3.313
7) PSYCHROBACTER IMMOBILIS	0.000	4.833	1.438	3.397
8) ACIDOVORAX FACILIS A	0.000	4.845	0.363	2.244
9) JANTHINOBACTERIUM LIVIDUM B	0.000	4.883	0.688	2.931
10) XANTHOMONAS CAMPESTRIS PV VITIANS C	0.000	5.020	0.500	2.088
other :	-----	-----	-----	-----