

PHL - U. W.

709
710
711
712
713
714
715
716
717
718
719
720

sl
giant
721
722
723
724

49155

725
726
727
728
729

	Lac	Suc		
709	-	-	0.	
710	+	-		
711	++	+	50+, same var.	2 Lac +
712	+++	-	2+	others 4-5.
713	++	-	0	
714	++	-	0	
715	++	-	0	
716	++	+	4	M+L+
717	++	+	0	
718	++	+	0	
719	++	+	0	
720	++	+	0	
721	++	+	semi turbid +, - bacteric; no fimbriations	
722	++	+		
723	++	+		
724	++	+		
725	++	+		
726	++	+		
727	++	+		
728	++	+		
729	++	+		
	Lysogenic			
	+			

Berkham - Chicago

730	T-193	F	-	
731	T-294	u	Lysogenic	
732	T-374	u	+ ^g	10+
733	T-1891	u	+ ^g	ca 300+ same -?
734	T-67	u	+ ^g	
735	T-61	F	+ ^g	T
736	T-481	F	+ ^g	O
737	T-1817	AEROGENES	+ ^g	O
738	T-179	F	+ ^g	T
739	T-1817	Pa	+ ^g	1v more +

724: grows out very slowly on EMS lac can.

Repeat 724

4-8-52 731 parent -

↑ Malt
unleavened.

Berkson - Chicago

6/26/51

Loc C/Suc Ch

740	T-721	U	tg	++	-
741	T-568	U	tg	-	-
742	#831	U RT.Kidney	-	+	-
743	P-228373	F	+	-P	-
744	P-326566	F	+	-	-
745	P-525618	F	+	-	-
746	P-525656	F	-	++	-
747	P-442010	F	+	++	-
748	T-503	F	+	+f	-
749	P-526647	F	-g	f	-
750	P-525627	F	tg	-	++

751	T-855	F	-g	+	-
752	P-523641	F	+	-	-
753	P-524786	F	+	-	++
754	P-447929	+	+	+	-
755	T-441	Sputum	-	-	-
756	P-525625	F	+	++	-
757	T-581	F	+	-	-
758	T-789	BILE	(+)	-	-
759	T-543	U RT. URETER	(+)	-	-
760	T-514	F	-	-	-

761	T-826	U	tg	++P	-
762	T-571	F	tg	-	-
763	T-566	F	+	-g	-
764	T-677	WOUND	tg	+	-
765	526561	F	-	Malt-slow	-
766	T-567	BILE	+	ng	+
767	T-669	BRON. ASPIR.	-	-	-
768	T-735	U	+	-	-
769	T-630	PUS	+	-	-
770	T-586	BRON. ASPIR.	+	-	-

771	T-455	WOUND	tg	+	-
772	T-845	F	+	+	-
773	T-721	LUNG (POST)	tg	g	-
774	T-547	VAGINA	tg	-	-
775	T-481	F	-g	+	-
776	P-525639	F	+	-	-
777	526446	U	-	-	-
778	P-511731	F	+	-	++
779	P-526931	F	+	-	-
780	P-449019	F	tg	-	-

834	781	526391	U	NG	+
	782	T-618	PLEURAL FL	-	+
	783	522900	U	+	-
	784	281645	F	-g	-
	785	T-572	F	tg	-
	786	512712	U	-	-
	787	T-584	F	tg	-
	788	459541	F	-	-

EMSS in Mal (Lac)

200+ n.g.

Malt 60 min? - n.g. slow
30 small Mal - ? lac
ca 30 " " NG lac
1 min + lac-pap?

O O
O
Num + n.g.
SD+, var size n.g.
nearly + "

SD Mt mostly n.g.; lac

T O O
150+ 6+ 20 min + 15E? mostly n.g.
N & N &

150+ var size others n.g.
100+ var. size 1 lac + n.s.
4+ all Malt 10 lac + NG
Mal-? 10 lac + (lac + n.s.)

O Num + O
O

O 13+ ca 5 small -
20 Mucifl + 100+ mostly n.s. 3+
50+ mostly n.s. 1-
300+ " " 1+

2+
50+
T

T tiny: min to all Malt, small
30+ most n.g. 1-
T
T
T O

Berkman - Chicago 6/26/51

		Lac	Ch	Mal	Suc	Gl
789	P-65318	F	+		-	
790	414989-P	F	+		±	
791	P-525654	F	+	-	-	-
792	T-520	u	+	-	-	-
793	P-525686	F	-	-	-	-
794	P-487660	F	+	-	-	-

T
T
T
T
~~2~~ all 3+

C.P. Miller - U. of Chicago. 6/26/51

795	151	H.B.	+	-	-	-
796	152	H.B.	+	-	-	-
797	153	H.B.	+	-	-	-
798	154	H.B.	+	-	-	-
799	155	H.B.	+	-	-	-
800	156	H.B.	+	-	-	-
801	157	H.B.	+	-	-	-
802	158	H.B.	++	-	-	-
803	159	H.B.	+	-	-	-
(804)	160	H.B.	+	-	-	-
805	161	H.B.	+	-	-	-
806	162	F	tg	-	-	-
807	163	H.B.	+	-	-	-
808	164	F	+	-	-	-
809	165	H.B.	+	-	-	-
(810)	166	H.B.	+	-	-	-
811	167	H.B.	±	-	-	-
812	168	H.B.	++	-	-	-
813	169	H.B.	+	-	-	-
814	170	H.B.	tg	-	-	-
815	171	H.B.	tg	-	-	-
816	172	F	+	-	-	-
817	173	H.B.	++	-	-	-
818	174	H.B.	++	-	-	-
819	175	H.B.	++	-	-	-
820	176	H.B.	+	-	-	-
821	177	H.B.	+	-	-	-
822	178	H.B.	++	-	-	-
823	179	H.B.	++	-	-	-
824	180	H.B.	++	-	-	-
825	181	F	++	-	-	-
826	182	F	tg	-	-	-
827	183	F	+	-	-	-
828	184	F	+	-	-	-
829	185	F	++	-	-	-
830	186	F	+	-	-	-
831	187	COLON	+	-	-	-
832	188	COLON	+	-	-	-
833	189	COLON	+	-	-	-

O
O
+
YOD
T
T

500+
500+

T
semi T some -?

" " "
" " "
T

semi T some -
20-30% +? all Lact, prob mut.

T
semi T some -
semi T some -
"

" "
" "
T
O

semi T -
semi T; some -?
"

T
O
semi T some -?
" all +
T
300+

semi T
T

RECHECK. 776 types.

vug #	SLANT WG	Proximohistory			Control Lac	real	×	Lac real
		Mal	Lac	Remarks				
629	✓	5+	+,-	Lac -				
635	✓	100	100					
644	✓	30	30					
655	✓	50+5-	- (+)					
657	✓	30-	-					
658	✓	40+	+					
661	✓	2+1?			v.snn		v.snn.	
671	✓	100+	+		T		T	
672	✓	Malt lac part 10+, ±	+ ±		O		15 variable +, (?)	
690	✓	4+	+ 2typ		O		cal +, b.c. legd..	
694		600+	+		200-		200-	
722	✓	small	wg?		v.snn.		40v.snn	
724	✓	6+	-(spr?)	Lact + ✓				
731	✓	100+(-?)	w.g.		Turbid		Turbid	
765	✓	?-	-+?		60-		60-	
772	✓	13+ ⁵ _{mm}			ca 15+		100+ 600+	
810	✓				40-	\$100+		
804	F plate ✓				sun T		sun T.	

Recheck 772, 690, 672

C.P. Miller - U. of Chicago 6/26/51

781 ILEUM Cb

~~834~~ 190 ILEUM

Vaughn

834	127	+
835	129	+
836	130	+
837	160	+
838	167	+
839	168	+
840	187	+
841	188	+
842	381	(+)
843	475	(+)
BENHAM	844 P-465454	+
	845	-

+ - + - + + + + +

W1647

W1648

T

T
T
T

200 small, variable salt
10 hal-oxbow
200 variable salt; 2 types

50 variable +

T
100 large salt
semi-T. Project!

804

805
206 dr

may be same organism.

U.W - P.H.L. 7/10/57

all λ Mabs, S^s

	LAC	Ch	Sac	Mab	Ila	S	
845-	+	(P)	++	-	-	-	0
846	+	-	-	-	-	-	0
847	+	-	++	-	-	-	2+
848	+	-	-	+	-	-	0
849	(tg)	-	-	-	-	-	0
850	(tg)	-	-	++	-	-	0
851	+	-	++	-	-	-	0
852	+	-	-	-	-	-	0
853	+	-	-	-	-	-	0
854	+	-	+	-	-	-	0
855	+	-	++	-	-	-	0
856							

Repeat, + 5 units penicillin to mixture with W1177 in Permasoy
^{and}

846-850
 852-855 } no protographs S^R.

exp. to test
 activity of penicillin in
stimulating recombinations

Bernham - Chicago 7/16/51

all δ^R S^S Melt

FMS/7/51

	LAC	Cb	Suc	Mal	ch	S	
856 P-448151 F	+	-	++	-	-	SR	T
857 P-457730 F	+	-	(P)	-	++		T
858 P-278502 F	+	-	-	-	-		T
859 527869 U	+	-	-	+	-		300 variable +
860 489015 U	+	-	-	-	±		
861 528763 U	+	-	++	-	-		O O
862 P-301814 F	±	+g	+g	-	-		T
863 P-406231 F	+	-	-	-	-		40 Mact +
864 P-525666	±	+g	+g	-	-		T
865 P-446497 F	+	-	-	-	±		O
866 P-528819 F	+	-	±	-	-		O O
867 ANL101126 F	+	-	±	-	-		
868 479425 U	+	-	++	-	-		T
869 P-497362 F	+	-	++	-	-		It
870 P-434711 F	±	-	-	-	-		
871 P-522818 F	+	-	-	-	-		T n Mal; O n Lac !!
872 P-487631 F	+	-	±	-	-		T
873 P-500604 F	+	-	-	-	-		T
874 P-522826 F	+	-	±	-	-		T
875 P-440777 F	±	±	++	-	-		I
876 P-407476 F	+	-	++	-	-		100 min
877 P-453521 F	+g	+g	+g	-	-		60 min
878 P-412280 F	+g	+g	+g	-	-		60 min (avg) +
879 P-522847 F	+g	-	-	-	-		O, some v. tenu
880 P-525658 F	+	-	-	++	-		
881 P-190341 F	+	-	-	++	-	lysogenic	T
882 P-414666 F	+	-	-	-	-		T
883 ANL101212 F	+	-	++	-	-		T
884 P-447944 F	+g	+g	++	-	-		1000
885 P-526955 F	+g	-	-	-	-		O
886 P-431475 F	+	-	-	-	-		

C.P. Miller - 21 of Chicago - 9/23/57

all melt + s⁺

LAC ch See See

887 191 H.B
888 192 "
889 193 "
890 194 "

891 195 "
892 196 "
893 197 "
894 198 "
895 199 "
896 200 "
897 201 "
898 202 "
899 203 "
900 204 "

901 205 "
902 206 "
903 207 "
904 208 "
905 209 "
906 210 "
907 211 "
908 212 "
909 213 "
910 214 "

911 215 "
912 216 "
913 217 "
914 218 "
915 219 "
916 220 "
917 221 "
918 222 "
919 223 "

+

+

+

+

+

+

+

+

+

1 -

-

-

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-

-

-

-
P
tg
tg

-

-

-

-

-

-

-

-

-

-

-

-

Melt

00000

0T

" " " " 00000

0TTT

semi T.

T000

TTTT0000

Bennion - Chicago 7/26/51 R

		LAC	CB	Malsue ch ^a fact	
920	T JONES, MABEL F	+	-	+	0
921	T VINSON, JULIA F	+	-	-	0
922	17065 u	+	-	-	0
923	389178 u	+	-	-	0
924	T OUMKUNO, ROE F	+	-	-	0
925	T SPANIER, JOSEPH LEFT KIDNEY	+	-	-	0
926	529728 u	+	-	++	0
927	45146 RECTAL SWAB	+	-	-	ca 500 +, ± ?
928	T TRUITT, NETTIE F	+	-	-	0
929	T STEINFIELD, D F	+	-	-	0
930	T GROOM, NETTIE F	+	-	-	0
931	240 u	±	-	-	0
932	524-895 RECTAL SWAB	+	-	++	0
933	T MILLER, FLORENCE LUNG	+	-	-	0
934	49949 u	-	-	-	0
935	528839 u	+	-	-	0
936	629638 u	-	-	-	0

Pillm-U.C.

7/27/57

A

		Lec	Succk	cb.	Mal		
937	120	H.B.	+ ⁹⁸⁶	++	-	+	0
938	121	H.B.	+(-)	±	-	+	+
939	122	SPLEEN	+	++	-	++	0
940	123	SPLEEN	+	++	-	+	0
941	124	H.B.	+	-	-	+	1+
942	125	H.B.	+	-	-	+	0
943	126	SPLEEN	+	-	-	+	0
944	127	PATIENT WITH URETHRITIS	+	-	-	+	1+
945	128	SPLEEN	+	++	+	++	0
946	129	SPLEEN	+	++	+	+	2-
947	130	H.B.	+	++	+	+	0
948	131	"	+	-	-	+	0
949	132	"	+	-	-	+	1+
950	133	"	+	-	-	+	0
951	134	"	+	-	-	+	0
952	135	"	+	-	-	+	0
953	136	"	+	-	-	+	0
954	137	"	+	-	-	+	0
955	138	"	+(-)	++ ⁹⁸⁰	±	+	0
956	139	"	+	-	-	+	0
957	140	"	+	-	-	+	0
958	141	"	+	-	-	+	0
959	142	"	+	-	-	+	0
960	143	"	+	-	-	+	0
961	144	"	+	-	-	+	T
962	145	"	+	++	-	SR	semi T, (many +, -)
963	146	SPLEEN	-	±	-	+	T
964	147	"	-	±	-	SR	T
965	148	"	-	+	-	+	T
966	149	"	±	-	-	+	T
967	150	"	(± slow)	-	-	+	0

962 Lact+ok, Mal-mut. Save for retest. colonies on FASS sm
u.g. n transfer.

Benham - Chicago

968 T CARTER, EDITH U
 969 T CROWLEY, ERON RT. EAR
 970 T MCKINNEY, ELIZ. F

971 T BOSSI, CHARLOTTE F
 972 T MENAGGIO, RUTH F
 973 T FOWLER, HATTIE U
 974 T QUAN, JENNIE F
 975 T MILLER, HAZEL F
 976 T STINE, ALPHIA F
 977 T SMALL, SANDRA U
 978 T WALROR, GENE F
 979 T CHRISTOPHER, J. WOUND
 980 T 4461 at 955-

981 T McHARRY, LORET SP. FLUID
 982 T O'NCIL, IRENE F
 983 T SMITH, MARY F
 984 T MURRAY, L.V. LONG
 985 T REISCH, CAROLINE F
 986 T 938 -

	bac	Cl-
968	+	-
969	+	++
970	+	+ min?
971	-	-
972	+	-
973	+	++
974	+	-
975	+	-
976	+	-
977	+	++
978	+	-
979	+	-
980	-	-
981	+	-
982	-	-
983	+	-
984	+	-
985	+	-
986	-	-

	R	Cl- Suc	Mal	EITS Malsom
968	-	-	+	0
969	-	++	+	0
970	-	-	+	0
971	-	-	-	0
972	-	-	-	0
973	-	-	-	0
974	-	-	-	0
975	-	-	-	0
976	-	-	-	0
977	-	-	-	0
978	-	-	-	0
979	-	-	-	0
980	-	-	-	0
981	-	-	-	0
982	-	-	-	0
983	-	-	-	3+
984	-	-	-	0
985	-	-	-	T
986	-	-	-	T

Malt

1+
4+ 3g.

S

Berkham - Chicago 9/30/57

AR

		LAC	cb	Clr	Suc	Mal	S	
987	SHANAFELT, D.	ISCHIAL ABSCESS	-	t.	-	-	-	0
988	GANSER, A.	U	+g	-	+g	-	-	0
989	BIRRIAND, M.	F	+	-	-	-	-	0
990	NORMRNT, A.	RT. EYE	+	-	-	-	-	0
991	T SKINNEY, M.	U	-	+	-	+	-	4+
992	FORTNER, M.	THROAT	+	-	-	-	-	2+
993	MARTIN, V.	PANCREAS	+	-	-	-	-	2+
994	ISHMIAL, D.	WOUND	+	-	-	-	-	T
995	SMITH, STEPH.	TRACHEOTOMY	+g	+	-	+g	-	T
996	WILLIAMS, N.	LOCHIA	+	-	-	-	-	T
997	HENLEY, D.	PERITONEUM	+	-	±	-	-	0
998	CHRISTOPHERSEN,	E. PENIS	+	-	-	-	-	0
999	McMIKEL, M.	U	+g	+	-	+g	-	0
1000	YORK, DEROT.	F	+	-	-	-	-	0
1001	JORDAN, DWIGHT	F	+	-	-	-	-	0
1002	HAND, WILLIE	U	-	-	+g	-	-	0
1003	THOMPSON, A.	U	(+g)	+	-	+g	-	0
1004	CORRIGAN, J.	U	+	-	-	+g	-	0
1005	DIBENETTO, T.	U	+g	-	-	-	-	0
1006	SAFFE, M.	U	+	-	-	-	-	0
<u>8-21-51</u>								
1007	LN 101206	F	+g	+	-	+g	S	0
1008	LN 101379		+	-	+	-	S	0
1009	125993	F	-	+	-	-	R?	0
1010	187447	F	-	-	-	-	S	0

Lysogenic.

ca 800 +g
0

T
0

Retests of colicin-producing strains

8/26/51

716- Test of colicin action
40.518 vs. W1695

XW1695
on EMS-Kac-Sm Mal

25	++	-	0
53	-	-	0
56	+	-	(+ slow)
61	++	-	0
62	-	-	5+
65B	-	-	0
70	-	-	T
75	-	-	0
90	-	-	0
93	+	+	1+
95	+	+	11 (slow)
750	+	+	2+
753	+	-	0
850	++	-	0
903	-	-	0
913	-	-	4+ (slow)
919	-	-	0
945	+	+	—
946	+	+	0
947	+	-	3+
978	++	-	0
987	-	-	—
1002	-	-	0
1008	++	-	—
1013	+	+	0
1016	+	+	0
1017	+	+	0
1018	+	-	T
1028	+	-	1
1036	++	-	0

October 14, 1951.

Other testes.

A. W1490 B W1602
B17 Lac + Malt. B14 - Lac - Malt -

A' Mal (-)
1052 = W1754 wg 37 Mal-
1053 1755 +
1055 1756 -
1056 1757 +
1060 1758 -
? 1072

C W1611

wg 4

A
++
++
50
+
+
+
=

lact, Malt + and
1052A
A mostly lac+, -
+ mostly lac-
C 30 mostly Malt, 1-
8 v. sm. 1054
5+ O lac
5+ 3+ lac
O O

B! +
w1113
C. w1115
776 - 1054
1057
1058
1059
1061
1062
1064
1065
1066
1067
1068
1069
1070
1071

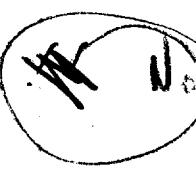
	A	B	C
+	+	-	+
+	+	0	0
0	0	+	+
"	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

mostly lac +
2 + 1 - lac +
+ lac +
+ lac - ? lac +

Note 1053 is seen to be fusible with wg 4 as well as wg 1

But note w1115 x wg 4 apparently sterile. But 1113 gave only 1, not enough

Also confirms 1052 - 3 - 5 - 6 - 1060. ??

Review 1052A: gives lac- and lac+  x W1611

Repeat 1053 x W1490: 29 colonies, all Malt + Note: Malt -

was seen in x W1611

Catlin - Marguerette - 8-17-51 acc J.R.

E11SPMum lac-sin

51

		lac	cb	sne	Ch	Mal	S	Pug	
1011	23a	+			-	+	S		0
1012	26f	+			-	+	S		0
1013	31b	+		+	+	+	S		0
1014	35a	+		+	±	+	S		18+
1015	38a	+		+	-	+	S		0
1016	44e	+		+	+	+	S		0
1017	45a	+		+	+	+	S		0
1018	46d	+		±-	++	+			ST
MISS.	1019	51c	+		+	+			
	1020	55e	+		+	+			
1021	57b	+		+	-	+	S		0
1022	58b	+		#	-	+	S		0
1023	59a	+		#	+	-	S		0
1024	64c	+		#	-	+	S		0
1025	66a	+		#	+	-	S		0
1026	69f	+		#	-	-	S		1+, 1dg
1027	73a	+		#	-	-	S		0
1028	74c	+		#	-	+	S		2+
1029	75a	+		#	-	+	S		0
1030	86a	+		#	+	-	S		2-
1031	89a	+		#	-	+	S		0
1032	90b	+		#	-	+	S		0
1033	91a	+		#	-	-	S		0
1034	94a	+		#	-	-	S		110+
1035	95a	+		#	-	-	S		11+
1036	96a	+		#	-	-	S		0
1037	102c	+		#	-	-	S		2+?
1038	103a	+		#	-	-	S		0
1039	106a	+		#	-	-	S		0
1040	107b	+		#	-	-	S		0
1041	108a*	+		#	-	-	S		0
1042	109a	+		#	-	-	S		0
1043	110a	+		#	-	-	S		0
1044	111b	+		#	-	-	S		1+
1045	112a	+		#	-	-	S		0
1046	113a	+		#	-	-	S		40+
1047	114c	±		#	-	-	S		0
1048	115b	+		#	-	-	S		0
1049	116a	+		#	-	-	S		1+
1050	118a*	+		#	-	-	S		0
1051	119av	+	(±)	#	-	-	S		1+
1052	121e	+		#	-	-	S		0
1053	124a	+		#	-	-	S		0
1054	125b	+		#	-	-	S		0
1055	127a	+		#	-	-	S		0
1056	129d	+		#	-	-	S		0
1057	131a	+		#	-	-	S		0
1058	132a	+		#	-	-	S		0
1059	133a	+		#	-	-	S		0
1060	135b	+		#	-	-	S		0

lac ± W1710 1- 1+? Both lac-Mal-
 lac ± W1754 0 Later; Fertile
 lac ± W1755 0 Fertile
 W1766 2- tiny Fertile
 1+, 1±? → lac+Mal+ ; lac-Mal-
 1+ 2+ ?
 T W17570 Fertile

dg = didn't grow, part marginally resistant to S.m.

	Catlin	Marguerite	8-17-51		
	Lac	Ob	SucCh	Mal	EMS Mal son
1061	138a	+	-	+	4+
1062	140a	-	-	+	0
1063	143a*	+	+✓	→+	0 W1758, Par: Mal-?
1064	145a	-	-	+	0
1065	146b	-	-	+	0
1066	147a	-	-	+	0
1067	150a	-	-	+	3± tiny ?
1068	151b	-	-	+	0
1069	153b	-	-	+	0
1070	154a	-	-	+	2- tiny
1071	155b	-	-	+	0
1072	157a	-	-	-	0
1073	158a	+	+✓	+	0
1074	161a	-	+✓	+	1-?
1075	162a	-	-	+	0
1076	163a	-	-	+	0
1077	164a	-	-	+	0
1078	165a	-	-	+	0
1079	168a	-	-	+	1-?
1080	169c	-	+✓	+	1+
1081	170c	-	+✓	+	1-?
1082	171b	-	-	+	4+
1083	172b	-	-	+	0
1084	173a	-	+	+	0
1085	174a	-	-	+	4+
1086	175b	-	-	+	0
1087	176a	-	-	+	2+
1088	177a	-	+✓	+	0

1051: mixed: Lac+, - Mal-. A = Lac+ (not pure 1st isol.)
 B = Lac- (mutable?)

Rechecks 1051, 1081. 1051 shows 2 components on Lac. (see over)

1051A is unstable lac⁺.

Each of 4 "clear" colonies showed lac- components.

10/5/51

UV (10^{-12} sec
for 10^{-6} surv.)

increased proportion

of lac- saturated cells

but left mostly

lac⁺.

Check through SR mutation.

776 - 1051 = W1710. Possibility of recombination
not ruled out.

1051C = Stable lac⁺ from B.

Retests:

1051 A 3 Lac+ Mal-Xyl-Mtl[±]
B 1 Lac- Mal-Xyl-Mtl[±]

Check Photography

↙ But Par. is Lac⁺, Mal-Xyl- !

1056 + +
 + - -

1081 1 Lac+ Mal+ Xyl+ Mtl⁺
 1 Lac- Mal- Xyl- Mtl-

✓

PDS. checked W1710 lac- × W1490 : very high yield
10/10/51 " " " " " low or 0.

Berkham - Chicago

8-21-51

♂

		lac	cb	suc ck	Mal sm
1089	383857 ^P F	+ ♀	+	-	1 + gammy
1090	366848-P F	+	-	-	0
1091	437817 abcess	+	-	-	0
1092	443915-P F	+	-	-	0
1093	482333 U	± ♀	-	-	0
1094	502080-P F	± ♀	+	-	0
1095	516884-P F	+	-	-	0
1096	P-522824 F	+	-	-	0
1097	528879 U	+	-	-	1+
1098	528944 U	-	-	-	0
1099	529857-P F	+	-	-	0
1100	X099 63416 abdominal pus	+	-	-	0

X099
X092
X093
X094

U. W. - P. H. L.

8-21-51

1101	74251	+	+	0
1102	74252	+ ♀	+	0
1103	74254	+ ♀ spreader	-	0
1104	74257	+	-	0
1105	74335	+	+	0
1106	74336	+ (folded)	±	0
1107	74351	+	-	0
1108	74354	(+), -	-	0
1109	74522	+	-	0
1110	74761	+ ♀	+	0
1111	74763	+ (folded)	+	0
1112	75243	+	-	0
1113	75789	+ ♀	+	0
1114	75791	+	-	0
1115	75819	+	-	0
1116	75820	+	+	0
1117	75860	+	-	0
1118	75916	+	-	0
1119	76201	+ ♀	+	0
1120	76202	±	+	0
1121	76209	+ ♀	+	0
1122	76307	+ ♀	+	0
1123	76308	+	-	0
1124	lac-fr. 1108	-	+	0

776 UW PH Lab. 9/14/51

		Lac	cb.	Suc	ck	Mal	S
1125	-	+	-				
6	78961	+	-				
7	80807	+	-				
8	-	+	-				
9	78349	+	-				
1130	78389	+	-	-	-		
1	80742	+	-	+	-		
2	78390	+	-	-	-		
3	78522	+	-	-	-		
4	78960	+	-	-	-		
1135	80015	+	-	-	-		
6	83552	+	-	-	-		
7	78344	+	-	-	-		
8	79267	+	-	-	-		
9	78953	+	-	-	-		
1140	78753	+	-	-	-		
1	79125	+	-	-	-		
2	79545	+	-	-	-		
3	79562	+	-	-	-		
4	79361	+	-	-	-		
1145	79816	+	-	-	-		
6	85133	+	-	-	-		
7	Lac-fn. 1133	-	-	-	-		
8	78952	+	-	-	-		
9	Lac-fn. 1156	-	-	-	-		
1150	Lac-fn. 1126	-	-	-	-		
1	Lac-fn. 1127	-	-	-	-		
2	77547	+	-	-	-		
3	Lac-fn. 1138	-	-	-	-		
4	77872	+	-	-	-		
1155	77546	+	-	-	-		
6	79696	+	-	-	-		
7	79264	+	-	-	-		
8	79180	+	-	-	-		
9	Lac-fn. 1141	-	-	-	-		
1160	Lac-fn. 1144	-	-	-	-		

U of the Berkham
lac

all A R

		Cl	Suc	CK	Mel	Sm?	EMS met Sm
1161	519345	U	+	++	-	R?	x
1162	520214	Abr Inc.	+	+	-	R?	x
1163	T 138	1595 F	+	+	+	R?	x
1164	P 428740.	14546 F	+ ^g	+	-	S S	1+ 0
1165	303404	U	+	-	+	R S	0 0
1166	532475	U	+	-	+	S S	x 0
1167	P 410748.	1425 F	+	-	-	R S S	0 0
1168	360353	U	+	-	-	R S	0 0
1169	T 602	Halp. Bl.	+	-	-	-	0 0
1170	465546	U	+	-	-	-	0 0
1171	299828	U	+	-	-	-	0 0
1172	B 3192	Ab-	+	-	-	-	0 0
1173	P 501503.	1685 F	+	-	-	-	0 0
1174	239457	U	-	-	-	-	0 0
1175	P 531933.	1649 F	+	-	-	-	0 0
1176	P 443661.	1703 F	+	-	-	S S S	1+ 0
1177	531369	U	+	-	-	-	0 0
1178	532439	U	+	-	-	-	0 0
1179	200517	U	-	-	-	-	0 0
1180	530836	Sinus	-	-	-	S?	0 X 0 0
1181	T 1260	Biliary F	-	-	-	R?	0 X 0 0
1182	T 1287	F	+	-	-	S P S S S P	0 0
1183	T 1398	U	+ ^g	-	-	-	0 0
1184	T 516	F	+	-	-	-	0 0
1185	T 921	F	+	-	-	-	0 0
1186	P 527128	F	+	-	-	-	0 0
1187	T 807	F	+	-	-	-	0 0
wg 27/188	T 1205	U	+	-	-	-	0 0

6- → Hal-X⁺

1189	T 1258	U	± ^g	-	-	S?	0
1190	T 1681	liver abscess	+	-	-	S S	0 0
1191	T 436	F	+	-	-	S S S	1+ 0
1192	T 662	F	+	-	-	S S S	0 0
1193	T 1521	U	+	-	-	S S S	0 0
1194	T 1289	U	+	-	-	S S S	0 0
1195	T 605	mag.	± ^g	-	-	S S S	0 0
1196	T 805	F	-	-	-	S S S	0 0
1197	T 1517	U	-	-	-	S S S	0 0
1198	T 1676	F	-	-	-	S S S	0 0
1199	T 582	F	-	-	-	S S S	0 0
1200	T 447	U	-	-	-	S S S	0 0
1201	T 1513	bld	-	-	-	S S S	0 0
1202	T 938	lymph node	+	-	-	S S S	0 0
1203	T 855	?	+	-	-	S S S	0 0
1204	P 530163.	1738 F	+	-	-	S S S	0 0
1205	T 569	ble	+	-	-	S S S	1+ 0
1206	T 704	F	+	-	-	S S S	1+ 0
1207	T 917	throat	+	-	-	S R S S	0 0
1208	T 526	U	+ ^g	+	-	S S S	0 0
1209	T 529	F	+	-	-	S S S	0 0
1210	P 101755	F	+	-	-	S S S	0 0
1211	T 1793	U	+ ^g	+	-	S S S	0 0
1212	T 1378	sputum	+	+	-	S S S	0 0
1213	T 1606	F	+ ^g	+	-	S S S	0 0

1195 may be susceptible to CK from 1195

U. of Chi. Berham
lac Cb

- 1214 P53241/-1709 F + -
1215 T1603 F + -
1216 T927 Bl, post mort -
1217 T1785 U ± g + -
1218 T523 F + -
1219 lac-fr 1208 - -
1220 lac-fr 1215 - -

Starr - California

- 1221 T56: 3g + -
1222 T64: 3g + -
1223 T65: 3g + -
1224 T66: 3g + -
1225 T69: 3g + -
1226 T70: 3g + -
1227 T73: 1g + -
1228 T74: 1g + -
1229 T75: 1g + -
1230 T76: 3g + -
1231 T77: 1g + -
1232 T78: 3g + -
1233 T81: 3g + -
1234 T86: 3g + -
1235 T131 + -

- 1236 T146: 10g + -
1237 T152: 10g + -
1238 T153: 10g + -
1239 T155: 3g + -
1240 T180: 3g + -
1241 T181: 10g + -
1242 T182: 10g + -
1243 T256: 3g + -
1244 T258: 3g + -
1245 T259: 3g + -
1246 T260: 3g + -
1247 T287: 3g + -
1248 T288: 3g + -
1249 T289: 3g + -
1250 T290: 3g + -
1251 T292: 3g + -
1252 T293: 3g + -
1253 T294: 3g + -
1254 T295: + -
1255 T297: 3g + -
1256 T298: 3g + -
1257 T299: 3g + -
1258 T300: 3g + -
1259 T301: 3g + -
1260 T304: 3g + -
1261 T306: 3g + -
1262 T383: 1g + -

See	Ck. Mol	Sm. EMS mol Sm.
-	-	S 1+ lac+
+	-	S 1+ lac+
± g	-	S 0
± g	-	R
± g	-	S 0
-	-	R
+	-	S 0

all ^R
O unless otherwise,

± g	++	S 1+
± g	++	1+
-	++	1+
± g	++	1+
-	++	1+
+	++	+
+	++	P S R
+	++	S
+	++	1+
+	++	4+
+	++	1?
+	++	Q Q O
+	++	K

UWPH lab

lar

Cbr Sac Ck

Mal sm

1263	86518
1264	86978
1265	86981
1266	87328
1267	88410
1268	89456
1269	90184
1270	90204
1271	90296
1272	90297
1273	91479
1274	91715
1275	92086
1276	lar - fr 1267

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segmented?

776 RESUME
August 5, 1952.

These cultures have been retained
on slants for further test.

S/Mal sm

W 776
1362

x 1177
22 Lac⁺. Dimorphism notif. Lsr, TS.

x other testers

a succ-
b

1547	266	Stuart W1 lac-Mal+	1--	Residual Lac production
1755	1053	Mal+ lac ⁺		Mal - x 1611 ?
1756	1055	Mal-	?	
1757	1060	Mal+	+	
1763	1296	Clifton K201	--, o	
1764	1281	Clifton K93	2->100+?; all+	
95		Lac+ Mal+	1-, ?xx.	
232		Lac- ^m Mal- ^m	16? sec?	5+
-731		Lact, Mal ⁺	(100+,-)(T), [1-?]	small lac-mal-). "utter confusion". Mal-lac-as control!
1390			3+ 11-; 1--	o, o,
1413?			several hundred;	
1444			+ and -;	o, o later, o F+, F-.
1507	++		1H, 6-; 9-?	2-? PARENT MOTTLED
1545	++		2+ 7-;	3+, 10+.
1554	L+M-		60--, o, o	o
1560	± -?		60+ 3-) all lac+,	2+ 1- (small) 1602
1575	++		many - -, o,	small ++
1578	++		3+ 4- 5 L+	o, o
1605	++		many -(+, -); o o	o
1608	++		17-20+; o, o	o
1622	++		3+ 6- (4 _{avg}) 20+-	1602: 18+ 4-?
1623	++		1+) # 1--	1-
1638	++		100+, T ¹ control	o
1663	++		25+ 5-, 2+, 1+,	3+ 1602
1680	++		100-, 100+m X + control	
1689	++		18+, 4-, 1-sm;	13+, 20- c 1817

1693 ++ 374 3 - ; 3+1-^{small} ;

2+, 5 - x 10¹⁷
1602 2 -

776-
vials. Also saved in vials and slants
slants

11	86	1302	2	722
89		1303	7	724
90		1304		804
91		1305	11	
		11	14	810
98		14		843
		15	17	
1200		16	20	962
01		17	21	
08		18		1057
09		19	27	1074
10		20		
15		83	53	1080
16		84	56	
17		85	58	1328
18		86		
20		87	61	1454
21		88		
22		89	62	1574
23		91	93	
24		92	144	1620
30		93		
32		94	153	1621
37		95		
38		96	208	1681
39		97	440	1692
40		99		
46	1400	1421	644	1694
47	01	22	658	
49	02	23	661	1701
50	03	24	671	
	04			1731
	05		690	
	06			1758
	07		694	
	08			
	09			
	10			
	11			
	16			
	18			
	19			
	20			

W1611

SRP CROSSES: (Wg 4) x wg^s 1 - 30.W1611 (SRauxo) x wg m (S^s proto)

"1/6/52 Grew parents together in 5 cc for a day, centrif, washed once & plated on EMS-lac-Sm. One plate per cross. No control plates studied simultaneously. Poor washing (probable) accounts for increasing turbidity on some of plates at 72 hrs (when all were examined). The large nos. of larger colonies appear on such plates, then, may or may not be prototrophs.

colonies turbid

Wg	40+	-
1	40+	-
2	0	-
3	0	-
4	0	-
5	200+	+++
6	28+	-
7	200+	+++
8	0	++
9	0	-
10	0	-
11	0	-
12	1+, 1-	+
13	0	-
14	0	-
15	2 +	-
16	0	+
17	0	-
18	0	+
19	0	-
20	0	-
21	400	-
22	0	-
23	0	-
24	100	+++
25	0	-
26	0	-
27	0	-
28	300	+++
29	4+	-
30	3+	-

WB serotypes.

O K H

Kaufmann Drsor. EML Shear
type

1		K30?	x		
2		8	+ 77		
3		0	8		
4		25	0 25	0	
5		-			
6		-			
7		2			
8		-			
9		0 12			
10		0 x			
11		0	15	1/2	
12					
13				13	
14					
15	86	12	73	1	
16					
17	41	0			
18		0			
19			9	9	
20					
21					
22					
23					
24	40	13			
25					
26	1	12			
27		0			
28	x	19.			
29					
30	19,133	0		27	
31		0			
32					
33	21	4	21	4	
34					
35		+	21		
36			9		
37	4	5	4		
38		0			
39	4	5	4		
40	7	0	7		
41			7		
42					
43	21	0?			
44					
45					
46	76	7	76	7	
47	x	new	3	13	
48	81	27	81		
49		0			
50		0			

new H

- 073

citrate +

citrate +

citrate +

= 37?

/x=avg

X φ - Eur EML PDS

51		x		
52	18	76	14	✓
53	20	17	0	✓
54	21	20	0	✓
55	25	19	12	-
56		026	36	0
57			025	

X76 = 1320

026

probably myphiste of ug 55-