SW	Source	Agent	Mutation	Details	Preservation
439.	SW-414	Mixed with SW-435	Lysogenic		
440.	"	"	"		
441.	"	"	"		L
442.	"	"	"		L
443.	SW-435	U.V.plates	Maltose -		L
444.	"	"	"		
445.	"	"	"		
446.	SW-240	U.V. Pen	Cystine		L
447.	"	"	"		
448.	"	"	"		
449.	"	"	Methionine		L
450.	"	"	"		
451.	"	"	"		
452.	"	"	Arginine		L
453	"	"	"		
454.	"	"	"		
455.	"	"	Isoleucine-valine		L
456.	"	"	Leucine		L
457.	"	"	"		
458.	"	"	Histidine		L
459.	"	"	Threonine		
460.	"	"	Proline		L
461.	"	"	"		
462.	"	"	Histidine		L
463.	"	"	"		
464.	"	"	"		
465.	"	"	YNA		
466.	"	"	Purines		L
467.	"	"	HC # YNA		L
468.	"	"	Cystine # Isoleucine-valine		L
469.	LT-11	"	Aspartic		L
470.	SW-206	"	Purine		L
471.	SW-204	"	Yeast extract		
472.	"	"	?		L
473.	SW-250	"	Am-4		
474.	SW-250	"	Proline		L
475.	SW-435	"	Mannitol -		
476	"	"	"	(maltose-)	L
477.	"	"	"		L
478.	"	"	"		
479.	SW-476	Reversion	Maltose # mannitol-		L
480.	"	"	"		
481.	SW-184	U.V. plates	Galactose -		L
482	"	"	"		L
483.	"	"	"		L
484.	"	"	"		L
485.	LT-7	"	"		L
486.	"	"	"		L
492.	SW-188	"	"		L
493.	"	"	"		L
494.	"	"	"		L
495.	"	"	"		L

SW	Source	Agent	Mutation	Details	Preservation
503.	SW-191	U.V. plates	Galactose -		L
504.	"	"	"		L
505.	"	"	"		
506.	"	"	"		L
513.	LT-7	SM	S^r		L
514.	"	"	"		L
515.	SW-503	"	"		L
516.	D.T.B.	Mouse colony	S.typhimurium		
517.	"	"	"		
518.	SY-79	LT-2FA	X i		
519.	"	"	i		
520.	"	LT-7FA	"		
521.	"	"	"		
522	"	"	"		
523.	"	"	"		
524.	"	"	"		
525.	"	"	"		
526.	"	"	"		
527.	"	"	"		
528.	"	"	"		
529.	"	"	"		
530.	"	SW-8FA	i		
531	"	"	"		
532.	"	LT-2FA	Rhamnose # X		L
533.	S. para B #3 filed with serotypes = SW703				L
534.	~~SW-533~~	Boulg phage C	non-motile	"para B" not	detailed in notes probably SW546
535.	S stanley # 15	~~as SW-533~~ see SW715			
536.	SW-535	Boulg phage C	non-motile		
537.	S. typhi H901	Boulgakoff			
538.	SW-537	Boulg phage C	non-motile		
539.	S. typhi #383 Boulg ~~rough~~				
540.	S. tyhphi	Boulg	rough		
541.	S. typhimurium v. copenhagen	"O"	F.K. 223	-O-1810	
542.	S. typhi	O901	F.K. 58		
543.	S. para B "O"	F.K. 248	O 19		
544.	S. typhimurium "O"	F.K. 13	FK 3173		
545.	"	4937/50	Edwards		
546.	S. para B phase II N-25		"	157 see 942	
547.	S. typhimurium phase II	191	"		
548.	Group B	2294/49	"O"	" (tymus)	
549.	"	117/51	"	" (tymus)	
550.	Group C 1	3012/49	"	"	
551.	Group C 2	4608/50	"	"	
552.	Group D	1524/51	"	"rough dublin	
553	"	1520/51	"	"	
554.	Group E 1	3226/50	"	"	
555.	S. typhi	T2 Almon and Stovall		"	
556.	S. typhi	O901 Felix		"	
557.	S. typhi	2V		"	
558	S. gallinarum	30953		"	

SW	Ref/	Source			
551	Edwards	4608-50	C-2	non-motile	
552	"	1524-51	D	nm	rough
553	"	1520-51	D	nm	S. dublin
554	"	3226-50	E-1	nm	
555	"	S. typhi T2 Almon&Stovall			$XIII_2$-
556	"	S. typhi)0-901			
557	"	S. typhi 2 (Felix Vi:E1)			
558	"	S. gallinarum 30953 (stable smooth)			
559					
560					
561					
562					
563		LT-2 —x SW553			gp:-
564					
565		SY-79(x- 714?)			j?
566		"			j?
567		SW548 x- LT-2			i:1,2
568		SW549 x- LT-2			i:1,2
569		SW537 x- LT-2			IX XII i:-
570		"			"
571					
572					
573	Leifson	R20 1/2	S. typhimurium	nm	(O)
574	"	R20 1/4	"		
575	"	R7 3/5	"		~~paralyzed~~ i not paral!
576	"	R7 2/4	"	normal	
577	"	FM 57.66	"	90% curly	
578	"	FM 61.63	"	paralyzed	i
579	"	FM 60.62	"	normal	
580	FM	FM 59.64	"	paralyzed	
581					
582					
583					
584	541	SW541	EMB Gal; UV		Gal-
585					
586	Leifson	R12	S, typhimurium paralyzed		
587	"	R14 1/2	"7	"	
588	BADS 32	SW534	Selection on mot. agar		—:1,2
589					
590					
591					
592					
593					
594					
595	Desranleau	S. typhi Vi type	A		
596	"	"	$C^{A\phi}$		
597	"		C2		
598	"		E4		
599	"		0-901		
600	"				

601
602
603
604
605
606
607
608
609 543 sc mot. ag. selection b:-
610
611
612
613
614
615
616
617
618 SW543sc x— LT2 b:-
619 SW592 Gi phage O mutant (from slow rev.)
620 SW593 Chi phage O mutant
621 SW594 " "
622 SW588 " "
623 SW543sc x— LT2 i:-
624
625 " i:-
626 " i:-
627
628 " i:-
629 Seligmann 1908 "x-phase" [Edwards says sluggish i:1,2] S. typhimurium
630 " S, newington 2922 Lac+
631
632
633 SW543sc x- SW588 1,2:-
—650

651							
652							
653		SW541 x-	593[544 2-step rev.]1,2			slow	1,2
654		SW653	sel. mot. agar			fast	np
655		SW580	"			slow	
656		SW586	"			slow	
657	WK Thomson	S. typhi Vi:	E1 (tryptophane)				
658	"	"	2-1-4			cystine	
659	"	"	S59			v "	
660	"	"	47-87B			"	
661	"	"	38-29B			"	
662	970A2	SW543sc x—	553		IV V XII	gp:-	
663							
664	970A8	" x—	S. sandiego SW 718			eh:-	
665		SW541	EMB Xyl; UV			Xyl-	
666	SW543sc		EMB Gal; UV			Gal-	
667	971C2	S. typhi H901 x—	SW553		IX XII	gp:-	
668	971C8	" x—	SW718			eh:-	
669	"	"			"		
670	971C7	" x—	S. abbny SW803		"	b:-	
671	974-1	SW666x—	LT7 (PLT7)		IV V XII	i:-	
672	971B7	SW435 x-	abony SW803		IV V XII	b:1,2	
673	966F2	SW543	spont. on mot ag.			b:-	
674	971B2	SW435 x-	553	see also 1-36E	IV V XII	gp:[gp]1,2	
675	971D3	SW666[x-	S. altendorf SW825] in b serum			z33:-	
676		SW673 /	b serum			z33:-	
677	971D7B	SW666 x-	abony, SW803			b:- (wk)	
678	971D7B1	SW677 /	b serum			z33:-	
679	971D6	SW666 x-	S. enteritidis SW 764		IV V XII	gm:-	
680	971D22	SW666 x-	LT2			i:-	
681	971D22	"	"			b:-	
682	974D3	SW673x-	623			i:-	
683	971D5	SW666 x-	S. heidelberg SW 716			r:-	
684	973B1A	SW666 x-	LT2		Gal+/- unstable	transduction	
685	974C2	SW618 x-	SW623			i:-	
686	974C3	SW618 x-	LT2			i:-	22^+
687	971C5	H901 x-	S. heidelberg		IX XII	r:-	
688		SW912 (Boyd 1404)		rough variant			
689	A. J. Weil	Shigella	66-1-410	II	(inducer)		
690	"	"	79-30-2	V			
691	"	"	66-1-1268	II	(inducer)		
692	"	"	63-143-D19	XII			
693	"	"	63-143-V	I	(inducer)		
694	Kauffmann & Schmid	339	S. paratyphi A, durazzo, XII_2		(no I)		
695	974C6	SW609 x-	623			i:-	
696	974D5b	SW623 x—	SW666			b:-	
697	i	"	"			i:-	
698	979B	LT2 x-	abony enx			enx:i	22^+
699	979A	" x-	abony b			b:1,2	22+
700	979 b	SW666 x-	SW588			b:-	

701-900. NOTE: These numbers correspond to Edwards Ky. Bull. 54, Nos. 1- (164)-200, respectively.

SW	Ref				
901		SW666 x-- SW588		IV V XII 1,2:--	
902	971e3	S. typhi H901 x-- S. altendorf SW825		IX XII a:--	
903	974DD5b	SW666 x-- SW623		i:--	22^s
904	W. Hirsch 2859		S. paratyphi B		
905	" 1415(1)		paralysed	b:1,2	
906	" 1415(2)		"	b: 1,2	
907	" 2859-0		non-motile		
908	SW666 rough	22^r	stable susp	from aged broth	"VR"
909	" "	"	autoaggl.		R
910	" "	"	"		VR
911	Boyd TM 1404		TM indicator		
912	" TM 1411		TM indicator		
913	" 068		lysogenic...		
914	" 29929				
915	" S22				
916	" 026				
917	" 1404/B2				
918	" 073				
919	" 020				
920	" 080				
921	" 1404/A1				
922	" 041	(indicator for SW912)			
923	979G1	S. abony x-- TM2		IV V XII i:enx	22^r
924	989A1	S. sendai x-- S. abony		IX XII a:enx	22^s
925	991H3	SW546 x-- S. abony(2)		IV V XII 1,2:enx	22^s
926	986 E1	TM2 + P22 lysogenic			
927	E2	SW666 + P22B "			
928	986 D2		"Lp^v"		
929	989 E1	S. typhi H901 x-- SW588		IX XII 1,2:---	
930	97304(1)	SW618 x-- TM2		i:-- (2-step)	22^s
931	979K2	S. abony x-- TM2		IV V XII b:1,2	22^s
932	991L1	SW926 x-- TM2 (1)		i:enx	22^s
933	991F1	TM2 (1) --x SW546		IV V XII i:--	22^s
934	974e3b1	TM2 --x SW618		i:--	22^s
935	4	" "		i:--	22^s
936	991H1	S. abony --x SW546		b:--	
937	992A7	SW546 --x abony		1,2:enx	22^s
938	991G1	SW618 --x SW546		b:--	22^r
939	971D39	S. sendai (SW771) --x SW666		a:--	22^s
940	979J-	TM2 --x abony		i:enx	22^s
941	Edwards	N25 S. paratyphi B, java, parent of SW857 (546)			
942	979L1	TM2 --x SW932 (abony x--TM2)		i:12	22^+
943	999-16	SW 609 + P22B (FA21)	Gal+ H^b Fla^+ lysogenic	I IV V XII	b:-
944	1000-A4	SW588 --x SW942		1,2:--	
945	Dienes	S. typhimurium "3"			
946	"	Proteus 52			
947	Stocker SL13 = Sal	25/52	S. paratyphi A O form		I XII 2
948	" SL14	26/52	" "		
949	-"- SW414		UV, EMB	TM2 Gal- M- H-	[v.h.t.]
950					

SW	Ref.	Source	Agency	Remarks.
951	1010	SW414	UV EMB	Mal- (slow)
952	1010	SW950	"	Gal- Mal- (sl)
953				
954	101601	TM2	Felix O-phage	O1-immune
955		SW950	P22	lysogenic
956		SW948	Felix O phage	O1-immune
957	Felix	S. typhi	O-901 #1	
958	1020 D1	SW961	selected in ~~xxxxxxxxx~~ paraA 15 serum	O:--
959	1024 Edwards	"Hines VAH"	IV V XII ( ):1,2	
960	1024	Edwards	5594-51 " à 1,2 (phagetype paraB)	:1,10
961	1020A	Edwards	S. cholerae suis-kunzendorf 6145/52	(c):1,5
962	1024	"	B Nonmotile 1568-51	--(i:12)
963			4936-50	"
964			4937-50	"
965			? Zelly-50	i:--
966			3010-49	b:12
967			D Nonmotile 1521-51 (Guatemala: of SW553)	gp
968		"	" 1522 "	gp
969		"	1525 "	gp
970			" 3821-51	(gm)
971			5465-52	gm
972			" 1553-52 (Kauffmann)	(gm)
973	1023M	SW857 x--X	S. miami	IX XII 1,2:1,5
974	1023J	S. zega --x	SW891	d:1,2
975	1023D	S, sendai --x	SW933	IV V XII a:enx
976	1023K	SW 959 /1,2		l....
977	1023K	S. zega --x	SW959	no reaction.
978	1023L	S. zega --x	SW960	d:12
979	Edwards	732-49	S. javiana	IX XII lz_{28}:1,5
980	1028N1	SW979 x--	abony(2)	lz_{28}:enx ✓ 22^s
981	979K16	(--x)abony	/b:enx	IV V XII z33:enx ✓ 22^r
982	SW972 --x	SW666		gm:- ✓
983	SW970 --x	SW666		gm:- ✓
984	SW979 --x	SW666		lz28:-- ✓
985	SW726 (abortus-equi) --x	SW666	1026F	a:-- ✓
986	1026G2	SW726 --x	SW950	IV V XII (i enx-) :enx (sic) 22^r
987	1031E	S. zega --x	SW666	IV V XII d:--
988	99102	SW546 /1,2	inagg.	induced phase 1,10 ?
989	Stocker	SL15	TM O-form Fla7⁻	IV XII TM O
990	1028D1	TM2 --x	SW980	IX XII i:enx ✓ 22^r
991	102701	TM2 --x	SW553	IX XII i:--
992	1031 Ko	SW959/ 1,2.		(bz33...)
993	1027C2	TM2--x	SW967	gp:--
994	1026-0	SW726 (abortus-equi) --x	SW960	a:12
995	1031K3	S. abony(2) --x	SW959	IV V XII ~~gm~~:enx
996	1028F2	SW980 x~~0~~	SW703(1) (paratyphi B)	22^r
997	1031 B	Edwards	3550-51 S. paratyphi B monophasic	b:--(z33)
998	1026T	S. sendai(2) --x	SW726	IX XII--:1,5 a:1,5
999	1023S	S. zega --x	SW959	--:z6 (:1,5,z6,..$\frac{2}{2}$)
1000	1026V	SW 959 --x	SW726	—:lz_{28}

no agglutination.

DATE: REF:

	1	2	3	4	5	6	7	8	9	10
	SW	Ref	Source	Agency				Remarks		
	1001	1026W	SW 726	x--SW703(II)				1,2:--		
	1002	1026D	Sw726	x--(FA18 LT2^2)				a:enx diphasie (rough		
	1003	1026E	SW726	x-- (FA22 LT22)				IV, V, XII! a:enx diphasi		
	1004	Edwards	S. Miami 6500-51					IX XII	a:1,5	
	1005	1025	SW803 (abony) b:enx 5 days plate				IV, V, II		z33:enx	
	1006	1036A	Edwards 7-119 para b non sp monoph				- almost nonmotile			
	1007	1036B	N97 " S. paratyphi b java							
	1008	1036C	N97 (3)	S. paratyphi b java			non sp			
10	10091036B1		SW1007	b serum					1,2:bz33	
	1010	1023G		S abony (x--)			IV, V, XII		cf SW981	z33:enx/ 22[1]
	1011		SW1004	x--FA10 b			IX, XII		b:1,5	
	1012	1023G	"	x--FA3 c			IX, XII		c:1,5	
	1013	1023G	"	x--FA54 d			"		d:1,5	
	1014	"	"	x--FA8 eh			"		eh:1,5	
	1015	"	"	x--FA22 i			"		i:1,5	
	1016	"	"	x--FA60 gp			"		gp:1,5	
	1017	"	"	x--FA50 1z28			"		1z28:1,5	
20	1018	"	"	x--FA5 r			"		r:1,5	
	1019	"	"	x--FA18 1,2			"		a:1,2	
	1020	"	"	x--FA71 1,2 (SW1009)			"		1,2:15	
	1021	"	"	x--FA3B 1,7			"		1:a	
	1022	"	"	x--FA15c enx			"		enx:a	
	1023	"	"	x--FA54 z6			"		a:1,5	
	1024	--	S. abony	x--S. zega					d:enx	22^R
	1025	--	TM SW950	x-- SW1010			IV, V, XII		z33:1,2	
	1026	1036E1	SW1009	x--FA12			IV, V, XII		i:b sic.	
	1027	1036G1b	TM2	x--(SW1009b; FA74)					b:1,2	
30	1028	1038B	SW1004	x-- SW1007 (FA73)					b:1,5	
	1029		SW1004	x--SW726					--:enx	
	1030	1038E1	SW1007	x--FA22					i:b	22^s
	1031	1038F2	SW1026i	X--FA40 (Sendai ph 1)			IV, V, Xii		a:b	
	1032	Edwards 2479-50		S. pullorum Mal+ XII2						
	1033	"				S abortus-equi	Meyer		enx:	
	1034	"				S abortus-equi	MC		a:	
	1035	"				"			NH2 a:	
	1036	1025	SW703	b:1,2			IV, V, XII		z33:1,2	
	1037	Zinder SR-8	SW558							S^R
40	1038	1044C5	SW1004	x-- S abony			IX, XII		b:1,5	10^R
	1039		S typhi H901	x-- SW666			IX, XII		b:--	
	1040		" "	x-- S sendai			"		a:--	
	1041	1043A1	SW1040	X-- S gallinarum SW774					gm	
	1042	1042		S abortus equi			41-D-1			
	1043	Edwards N97b							b1,2	
	1044	1044-C5-7	SW1004	x--S abony					b:1,5	PLT10s
	1045	1033-4	SW967	x--SW666					gm Fla+	22^s
	1046	Stocker:	SL46				TM binns	NCTC 73		
	1047	104551	SW694	x--SW944			I, II		b:--	
50	1048	1045 (1033G2-2)	SW948	x--Track, SW			No XII$_2$	no I		
	1049	1046c1.2	SW1043	x--TM					i:1,2	Lp^R
	1050	1023G.	SW1022	x-- S altendorf			IX, XII		c:enx	

DATE: REF:

	1	2	3	4	5	6	7	8	9	10
	SW	Ref	Source	Agency			Remarks			
	1051	1046K1	1042B2.2(N971022)	x-- S abony					1,2:enx Lp^r	
	1052	1049A	SW1031	x--S altendorf		a:b	IV, V, XII		c:b	
	1053	1049B2	SW1031	x-- "		a:b	"		c:a	
	1054	1051G1	SW1053	x-- Sabony (enx)		a:c	"		a:enx	
	1055	1051H1	SW1053	x-- S abony (enx)		a:c	"		c:enx bovis	
	1056	1052M	Moran (Ky)	"S abortus equi" 1966					enx:b abortus/	
	1057	1051R2	TM	TM-SW1055			IV, V, XII		c:1,2	
	1058	1052B	Edwards	Peru 818						
10	1059	1050	SW1022	x-- Type 1 S abortus equi			D		b:enx	
	1060	Edwards	302-50	S cholerae-suis kunzendorf (Susc Beccles, Tauton, p)						
	1061	"	TM2	Monophasic derivative.			stable ph2		53-2034 COC	
	1062	Spicer	14/45				S paratyphi C NM 3/10/52			
	1063	Pre 3011-49					C1 NM			
	1064	2963-51					C_1 NM			
	1065	2692-49					C_1 NM			
	1066	5993-50					C_1 NM			
	1067	2806-51					C_2 NM			
	1068	4608-50					C_2 NM			
20	1069	4609-50					C_2 NM			
	1070	232-52					I, XII, XXIII			
	1071	4519-52					E_1			
	1072	2715-49					B (I, IV, V, XII)		i:1,2 see 107 1	
	1073	1071A3-1	SW666	x-K S typhi A					d; -	
	1074	NCTC 73		TM "binns" = 16			McNee, France 1917		=SW1046	
	1075	Stacker	5710	"			IV, V			
	1076	"	5711	"			I, IV, V			
	1077	"	5712	"			IV			
	1078	"	5713	"			I, IV			
30	1079	"	5715	"			IV V			
	1080	"	4787	" "binns"						
	1081	"	6817	"			IV, V, XII			
	1082	"	SL 100 .	T 35/52			Le Minor and Grabar S typhi 0			
	1083	"	101 .	T1/53			Roschka		"	
	1084	"	102 .	T39/52			Moser		"	
	1085	"	103 .	A205BL	S para A	LeMinor	H		"	
	1086	"	104 .	A205IR	S para A	LeMinor	paral			
	1087	"	105 .	A205IM	"	"	0			
	1088	"	106 .	A205J	"	"	weak			
40	1089	"	SL 43	SW573 x--SW548			H, paralysed			
	1090	"	J. T. Sal	1231/52			III, X 0			
	1091	"	SL 18				IV, V, XII TM-0		2a see SW989	
	1092	"	SL28				IV, V, XII (a:1,5)		S heidelberg0	
	1093	"	SL55				TM-0			
	1094	"	SL54				TM-0			
	1095	"	SL51				IV, V, XII (b:1,2)			
	1096	1073A-0	H901/d						j	
	1097	1073A1		S gallinarum 74 0-x H901					gm	
	1098	Anderson					S newport puerto rico			
50	1099	"					S fayed			
	1100	"					S cholerae-suis 1348			

Date	S.W.	Ref.	Source & Remarks	
1/10/54	✓1101	AB 4/1	Manchester 56488/52 TM - '0'	22^5
1/10/54	✓1102	AB 4/1	Manchester 29718/53 TM - '0'	22^5
4/11/54	✓1103	AB 6/1/II c	F.A.22 → × S. wien (CDC 281) → IV. XII : i : l.w.	
5/7/54	✓1104	AB 6/1/II 2	F.A.39 → × S. dar es salaam (SW 771) → I. IX. XII : a : e n z_{18}	
5/11/54	✓1105	AB 6/1/II i	F.A.39 → × S. wien (CDC 281) → IV, XII : a : l.w.	
7/28/54	✓1106	Edwards	4849/53 D NM	
"	✓1107	"	4950/53 D NM	
"	✓1108	Uetake	76 - S. london 1446 (see 776).	
"	✓1109	"	77 - S. give 316	
"	✓1110	"	78 - S. anatum 293	
"	✓1111	"	81 - S. amager 2399	
"	✓1112	"	82 - S. zanzibar 5628	
"	✓1113	"	83 - S. shangani 5630	
"	✓1114	"	E1-1 S. butantan	
"	✓1115	"	E1-2 S. vejle	
"	✓1116	"	E1-3 S. meleagridis	
"	✓1117	"	E1-4 S. elizabethville	
"	✓1118	"	E1-5 S. simi	
"	✓1119	"	E1-6 S. weltevreden	
"	✓1120	"	E1-7 S. orion	
"	✓1121	"	E1-8 S. lexington	
"	✓1122	"	E1-9 S. muenster	
"	✓1123	"	84 S. newington C2	
"	✓1124	"	85 S. selandia 7482	
"	✓1125	"	86 S. new-brunswick 5411	
"	✓1126	"	E2-1 S. cambridge	
"	✓1127	"	E2-2 S. kinshasa	
"	✓1128	"	E2-3 S. canoga	
"	✓1129	"	E2-4 S. illinois	
"	✓1130	"	K-12 S. thomasville	
"	✓1131	1071 C8	K → × SW 1072 → i+, ②+ ⑤+	
7/28/54	✓1132	Edwards	(CDC 268) S. bali	
"	✓1133	"	(" 281) S. wien	
"	✓1134	"	(" 290) S. wagenia	
"	✓1135	"	(" 317) S. zega	
"	✓1136	"	(" 208) S. shoreditch	
"	✓1137	"	(" 229) S. para A durazzo (XII$_2$).	
2/12/55	1138	J.L.	SW 967 gal -	
"	1139	J.L.	SW 967 gal -	
2/13	1140	Edwards	55-207 S. typhi Paralysed	
4/13	✓1141	"	212 S. manschani (original) XXXV : m.t : -	
"	✓1142	"	325 S. alachua (original) XXXV : $z_4 z_{23}$: -	
"	✓1143	"	170 S. adelaide (original) XXXV : f.g : -	
"	✓1144	"	390 S. spp. (J. Taylor) XXXV : a : -	
"	✓1145	"	2288/51 S. adelaide (N.J. SHD.) XXXV : f.g : -	
"	✓1146	"	994/54 S. alachua (Cal SHD) XXXV : $z_4 . z_{23}$: -	
"	✓1147	"	1003/53 S. alachua (Cal SHD) XXXV : $z_4 . z_{23}$: -	
"	✓1148	"	1287/54 S. alachua (J. Taylor) XXXV : $z_4 . z_{23}$: -	
"	✓1149	"	2212/53 S. alachua (Fla SHD) XXXV : $z_4 . z_{23}$: -	
"	✓1150	"	1017/54 S. spp. (Cal SHD.) XXXV : n.m.	
5/17	1151	Edwards.	S. virginia (VIII) : d : -	

SW

Date	No.	Source	Culture		Notes
11/18/55	1151	Edwards	S. virginia		
	1152		S. typhimurum	"H_2S-"	PKE
1/18/56	1153 ✓	T.I.-50	TM2	U.V.	Fla-
"	1154 ✓	" "	"	"	"
"	1155 ✓	" "	"	"	"
"	1156 ✓	" "	"	"	"
"	1157 ✓	T.I.-52	"	"	"
1/24/56	1158 ✓	Edwards	Col 529-55		4,12 : r(i)-l,w.
9/24/56	1159 ✓	T.I. 8/27/56	Sw726 × TM2		(i) : ~~enx~~ monophasic PLT22[5]
"	1160 ✓	T.I. 9/10/56	Sw1061 × Sw1092		(i) : 1.2 monophasic.
"	1161 ✓	T.I. 9/10/56	Sw1061 × Sw803		- : b monophasic.
"	1162 ✓	T.I. 6/6/56	Sw1161 × TM2		i : b	22+
6/10/57	1163 ✓	from Taylor.	S. africana		4,12 : r(i)-lw.
	1164 ✓	Edwards	S. para B. monophasic b 4259-50		
	1165 ✓	Edwards.	monophasic 5222-51. stable i phase.		
	1166 ✓	Edwards	192-53, S. typhimurium monophasic i		
	1167 ✓	"	5249-52,	"	" "
	1168 ✓	"	6065-50,	"	" "
	1169 ✓	"	2802-51	"	" "
	1170 ✓	"	1370-52	"	" "
	1171 ✓	"	1385-51	S. paratyphi B. monophasic b	
	1172 ✓	"	3514-50	"	"
	1173 ✓	"	5088-50	"	"
	1174 ✓	"	2324-50	"	"
	1175 ✓	"	5586-50	"	"
	1176 ✓	"	5317-50	"	"
5/20/57	1177 ✓	"	1339-56	Vt.	4,5,12 : 1.2 mono
"	~~1178~~ 1178 ✓	"	1573-53	Wash.	4,5,12 : i mono
"	1179 ✓	"	4398-55	Alaska	4,5,12 : i mono
"	1180 ✓	"	3855-55	Rhode Island	4,5,12 : i mono
"	1181 ✓	"	1673-54	Maine	4,5,12 : i mono
"	1182 ✓	"	1996-56	Oregon	4,5,12 : i mono
"	1183 ✓	"	120-54	Oregon	4,5,12 : i mono
"	1184 ✓	"	331-57	La	4,5,12 : i mono
"	1185 ✓	"	4987-53		Gp D n ~~motile~~
"	1186 ✓	"	5455-54	Fla	Gp B n ~~motile~~
"	1187 ✓	"	1467-55	Canada	S. dublin, mucoid nm ~~mo~~.
"	1188 ✓	"	2384-55	Col.	Gp B. n ~~motile~~.
"	1189 ✓	"	1251-55	Del	Gp B (4,12) : n ~~motile~~
"	1190 ✓	"	4122-55		Gp B n m ~~mo~~
"	1191 ✓	"	5042-55	Wash	Gp B n m ~~mo~~.
"	1192 ✓	"	431-56	Va.	Gp B n m ~~mo~~.
"	1193 ✓	"	327-57	Ind. (prob. S. para B)	Gp B n.m ~~mo~~.
"	1194 ✓	"	1238-57	Colo.	Gp B n m ~~mo~~
"	1195 ✓	"	2026-52	Iowa	4,5,12 : eh mono.
"	1196 ✓	"	3092-55	Texas	4,12 : eh mono.
"	1197 ✓	"	4382-55	Texas	9,12 : l z28
"	1198 ✓	"	3793-55	Ga	9,12 : l z28
"	1199 ✓	"	4303-56	Ariz	9,12 : l, z28
"	1200 ✓	"	4480-53	Ala	9,12 : l, z28
"	~~1201~~ ✓	"	~~3593-55~~	~~Ga~~	~~9,12 : l, z28.~~
"	~~1202~~ ✓	"	~~4814-55~~	~~Ga~~	~~9,12 : l, z28.~~
"	~~1203~~ ✓	"	~~Fla C 1473~~	~~b monophasic (obtained from C.D.C. Feb 1953)~~	
"	~~1204~~ ✓	"	~~Dr. Wilkerson~~	~~b monophasic~~	~~(" ")~~

n.m. = non motile

Date	SW	Ref.	Source and Remarks	
3/20/57	1201 ✓	Edwards	3593-55 Ga.	9, 12. l, z_{28}
"	1202 ✓	"	4814-55 Ga.	9, 12, l, z_{28}
"	1203 ✓	"	Fla C 1483, b monophasic	(obtained from C.D.C. Feb. 1953).
"	1204 ✓	"	Va Wilkerson, b monophasic	(" ").
9/10/57	1205 ✓	"	2495-57 (Calif)	non motile group B Tartrate⁻.
"	1206 ✓	"	2571-57 (Minn)	" " Tartrate⁻.
"	1207 ✓	"	2475-57	9, 12, 9 n z_{16} z_{28} : 1, 5, 7.
11/23/57	1208 ✓	T.I. 11/23/57	SW 803 b: enx × SW 1159	anti enx → i: (enx) monophasic
1/24/58	1209 ✓	T.I. 1/9/58	SW 1061 acriflavin,	weak motile - : 1,2.
"	1210	T.I. 1/10/21/58	SW 629 × SW 1092	(r): 1,2 (Ah; H_1^r $H_2^{1,2}$)
3/4/58	1211		FREDERICQ SA 118	S. bareilly chicken Ch⁺
"	1212		" SA 211	S. TM man Ch⁺
3/24/58	1213	T.I.	TM2 PLT22^s + FA (TM2 i:1,2) → PLT22^R	
9.15.58	1214 ✓	Baron	S. TM ETS9-S^R	Fertile with coli Hfr.
9.26.58	1232 ✓	"	" ETS9-S^s	
	1233 ✓	" 951-2	W1214 UV	Arg Leu Pro Ur
	1215 ✓	EML	SW 1214 spont.	Ara⁻.
	1216 ✓	"	" Inf. P22 single plaque	(P22)
	1217 ✓		UV SW1214 UV: B gal	Ara⁻ Gal⁻ᵐ (1)
	1218 ✓			(2)
	1219 ✓			(3)
	1220 ✓			(4)
	1221 ✓			(5)
	1222 ✓			(6)
	1223 ✓		SW1214 UV. Bara	Ara⁻ (11)
	1224 ✓			(12)
	1225 ✓			(13)
	1226 ✓			(14)
	1227 ✓			(15)
	1228 ✓			(16)
	1229 ✓			(17)
	1230 ✓		SW1224 UV B gal	Gal⁻ (4)
see above	1231 ✓	EML	SW 1224 " "	" (5) st
7/10	1234 ✓		SW1231 spont. (penic)	Arg (Ara⁻ Gal⁻ Mal) S^R
	1235 ✓		SW 1234 "	Ser (Arg " " " S^R
	1236 ✓		SW 1234 UV: mal	Mal⁻ (Arg⁻ Ser⁻ Gal⁻ ~~Mal~~ Ara⁻ S^R)
	1237 ✓		SW 1215 spont.	Arg⁻ Ser⁻ [Gal+ Ara⁻ S^R Mal(?)]
	1238 ✓		SW 1236 UV: mal	Mal +
	1239 ✓	WINICOV	SW 1214 protocol - penicillin	Val⁻
	1240 ✓	EM4	SW 1237 (?) UV: gal	Gal⁻ st. (Arg Ser Ara S^R)
	1241 ✓	" 34A4	1237 × W1895 hybridiz. ?	Lac⁺ P22 v^s proto: T5^s λ_2^R Gal⁻ S^R Ara+
	1242 ✓	" 32 A15	× W3057	M⁻ S^s Lac⁻ Ara⁻
	1243 ✓	32 B30	"	≎ SW1237 except Gal⁻ } reversed?
	1244 ✓	" Bd	"	≎ SW 1237 except M⁻
	1245 ✓	" AC		sugar + S^s Lp⁺ λ_2^R P22 v^R proto ≎ 1895 M⁺
	1246 ✓	"	SW 1245 UV: gal	Gal⁻ #1
11/12-12/18	1247 ✓	Winicov #1	SW 1214 penicillin + UV	Prol
	1248	" #2	"	M
	1249	" #3	"	Cyst
	1250	" #5	"	Tyro

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SW 1251–
SS 1300

1959

REF:

date	SW-	Ref	Source	Agent	Mutation + Characteristics
11/24	✓ 1251 ✓	EML.	SW1236	UV: xyl	Xyl⁻ {#1 (ArgSer Lac Gal Ara Mal Sm)
	✓ 1252 ✓			"	{#2
	✓ 1253 ✓			"	{#3
	✓ 1254 ✓	" 40.4.2	W1895xSW1241	recomb. Mgal	Gal+ proto (sugar+ p22v^S λ_2^R S^S ♂)
	✓ 1255 ✓	"	SW1241	UV: lac	Lac– #1 (Gal-Lac $S^R\lambda_2^R$ p22v^S)
	✓ 1256 ✓	"	"	"	#2
	✓ 1257 ✓	"	SW 1246	"	Lac– {A
	✓ 1258 ✓	"	"	"	" {B
	✓ 1259 ✓	WINICOV	SW 1250	penicillin	T (Tyro)
	✓ 1260 ✓	"	SW 1259	UV - gal	Gal⁻ (T Tyro Lac⁻ S^R)
	✓ 1261 ✓	"	SW 1259	~~penicillin~~ arab	~~Arg~~ (~~Pro~~ " Lac " ~~Gal~~)
	✓ 1262 ✓	"	SW 1247	penicillin	~~Arg~~ L (Pro⁻ Lac S^R)
	✓ 1263 ✓	~~EML~~ " W	SW1262	UV: arab	Ara⁻ (P ~~Ar~~ Lac S^R)
	✓ 1264 ✓	EML	SW1263	" gal	Gal⁻ #5 (" " " " Ara)
	✓ 1265 ✓	"	"	" "	#6 "
	1266 ✓	"	"	" "	#7 "
	✓ 1267 ✓	"	SW 1237	" "	#1
	✓ 1268 ✓	"	"		2
	✓ 1269 ✓	"	"		3
	✓ 1270 ✓	"	SW1254	penicillin auxo	3 prol: ♂ p22v^S λ_2^R S^S mud.
	✓ 1271		↓	"	B33 ints? Gal⁻^{m}
	✓ 1272 ✓			"	13
	✓ 1273 ✓			"	17
	✓ 1274 ✓			"	20
	✓ 1275 ✓			"	36
	✓ 1276 ✓			"	5
	1277 ✓	EML	SW1246	"	P (Gal⁻ Lac⁻)
	✓ 1278 ✓	"	SW1263	UV: gal	Gal⁻ #3
	✓ 1279 ✓	"	"		#2
	✓ 1280 ✓	Atkinson	SW1270	× ent SW 803	ent: i (p22)⁺
	✓ 1281 ✓	"	SW 1240	"	" " (ArgSer ~~Gal~~ Lac Ara S^R)
	✓ 1282 ✓	EML	SW 1281	UV: xyl	Xyl⁻ (+mult) (" " " " p22⁺ ent:i)
	✓ 1283 ✓		"		
	✓ 1284 ✓		"		
	✓ 1285 ✓		"		
	✓ 1286 ✓		"		Xyl – (sm 4 Flrs).
	1287	Atkinson	SW 1281	× i	
	✓ 1288 ✓	EML	SW1282	UV: rham	Rham – #1 (
	✓ 1289 ✓	"	"	" "	#4 (
	✓ 1290 ✓	"	SW 1253	" "	" #1 (ArgSer Lac Gal Ara Mal Xyl S^R)
	✓ 1291 ✓	"	SW 1265	" xyl	Xyl – (P Asp Ara Gal Lac S^R)
	✓ 1292 ✓	"	SW 1291	" rham	Rham⁻ (" Xyl ")
3/30	✓ 1293	"	SW1284	" "	" (ArgSer " " " " p22⁺ ent: 1.2)
3/6–3/31	1294	Atkinson	SW 1238	× b via p22 (SW803)	1B b: 1.2 p22⁺ (Arg Ser Mel Ara S^R Lac⁻
	1295		SW 1253	"	10 (" " " Gal Xyl ")
	1296		SW 1260	"	11 " (Ty T Gal
	1297		SW 1264	"	12 " (P Asp Ara Gal)
	1298		SW 1272	"	15 ↓ " (♂: sugar+ auxo T_5^S S^m)
5/10	✓ 1300	EML 29 593	SW1215 + W6	recomb. w. F⁺ ♂ coli (#10)	Lac+ p22v^S proto. (Gal⁻^{m}: Ara⁺: F donor to E. coli)

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S1301-1350

1959 REF:

date	S #	Ref	Source	Agent	Mutation or Characteristics	
5/10	✓1301 ✓	EML.59529	W6 x SW1215	recmb. w. F+ ♂	{ Lac+ p22v^s proto: donates F to coli ? Ara + Gal-^m.	#6
	✓1302 ✓	"				11
	✓1303 ✓	"				14
	✓1304 ✓				}	18
6/22	✓1305	".	SW 1263	UV : B xyl	Xyl⁻ #9 (sector)	
	✓1306 ✓		:		#3 (pinkish; lv gr.	
	✓1307 ✓		"		#4.	
	✓1308 ✓		"		5	
	✓1309 ✓		"		6	
	✓1310 ✓		"		8.	
6/23	✓1311 ✓	"	~~SW~~ 1305	UV: B rham	Rhm⁻ (sector) #1.	
6/26	✓1312 ✓		S. 1300	penicillin	#18. tryp (F+ donor; Gal⁻ Lac+ p22v^s W6 x SW1215 S^R Ara+)	
	✓1313 ✓			"	#51 glyc(or ser)	
	✓1314 ✓			"	#67 Cyst	
"	✓1315 ✓			"	#70. ~~Ala or~~ iL+V	
7/1	✓1316		S 1312	"	#18.2 try + threo	
	✓1317 ✓		S. 1314	"	67.1 cyst + ~~glyc~~.	
	✓1318 ✓		S 1312	"	18.1 C+M (Try)	
	✓1319 ✓		S 1314		67.2 Try (C)	
	✓1320 ✓		"		67.3 Arg (C)	
	✓1321 ✓		"		67.8 iLV (C)	
	✓1322 ✓		S 1312		18.12 iLV (Try) Gal-^m	
7/2	✓1323 ✓		SW 1313		51.6 T (gly)	
	✓1324 ✓		"		51.[illegible] P (")	
	✓1325 ✓		"		51.2 AAzL (")	
	1326		.		18. P (try)	
	1327					Gal +
	1328				HIST	
	1329					Gal +
	1330					
7/25	1331		SW 1259	Inf. F8 W4520.	F+8 Lac [illegible]	
	1332		SW 1311	"		
	1333		SW 1320	"		
	1334		"	"		
	1335		"	"		
	✓1336 ✓		SW 1259	{ inf. F13 W3747	F+13 Lac +	
	1337		SW 1262	}		
9/6/59	✓1338	✓Nossal	Salmonella adelaide		(cf. Nossal + Lederberg 1958)	
10/26/59	✓1339	✓Baron	ST-2 x LT-2		F'	
11/1/59	✓1340 ✓	H. Nikaido	SW 350	SM	S^R H⁻ M⁻ Gal⁻	
11/13/59	✓1341 ✓	—"—	SW 803	SM	S^R	
11/13/59	✓1342 ✓	—"—	TM 2 (85)	SM	S^R	
11/13/59	✓1343 ✓	—"—	SW 685 x W3747 F13	Lac+ sel.	Lac^{+v} F13 i	
11/30/59	✓1344 ✓	—"—	SW 180	SM	S^R C⁻ M⁻	
2/18/60	✓1345 ✓	—"—	SW685 x SW1339	Lac+ sel.	Lac+ i	
4/28/60	✓1346 ✓	—"—	TM2(85) x W3747	Lac+ sel.	Lac^v F13	
	✓1347 ✓	"	SW1340 x SW 1346	Lac+ sel.	Lac^v F13 (Gal⁻ H⁻ M⁻ S^R)	
	✓1348 ✓	"	SW 1340 x SW 1352	Lac+ sel.	Lac^v F13 (Gal⁻ H⁻ M⁻ S^R)	
	✓1349 ✓	"	TM2 (85) x SW 1364		F+ "pink"	
	✓1350 ✓	"	SW 803	reisolation F⁻ ~~white~~	F⁻ "white"	

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GENETICS

SW 1351-1400

19 60

REF:

	1 date	2 SW	3 Ref.	4 Source	5 Agent	6	7 Mutation & Characteristics	8	9	10
1	4/28/60	1351	H Mäkelä	SW 1350 ×	SW 1362		F+ "pink"			
2		1352	"	SW 803 ×	W 3747	Lac+ sel.	Lac+ F13			
3		1353	"	SW 1341	reisol. white col.		F- white	(S R)		
4		1354	"	SW 1341	reisol. pink col.		F+ pink	(S R)		
5		1355	"	SW 1341	UV, penic. sel; white		P- F- white	(S R)		
6		1356	"	SW 1341	UV, penic. sel. for pink col.		F+ pink	(P- S R)		
7		1357	"	SW 1355	UV, penic.		Arg-	(P- S R white)		
8		1358	"	SW 1357 ×	SW 1357		F+ pink	(P- Arg- S R)		
9		1359	"	SW 1357 ×	SW 1352	Lac+ sel.	Lac+ F13	(P- Arg- S R)		
0		1360	"	SW 1357	UV, penic.		H-	(P- Arg- S R white)		
		1361	"	SW 1341	UV, penic, sel for w		M-	(F- white S R)		
1		1362	"	SW 1341	UV, penic, sel. for p		F+ pink	(M- S R)		
2		1363	"	SW 1361	UV, penic.		Aromatic A-acids	(M- S R F- white)		
3		1364	"	SW 1363 ×	SW 1357		F+ pink	(M- Arom- S R)		
4		1365	"	SW 1363 ×	SW 1352	Lac+ sel	Lac+ F13	(M- Arom- S R)		
5		1366	"	SW 1350	UV, penic.		H-	(F- white)		
6		1367	"	SW 1366 ×	W 4772	proto sel.	F' Lac for H	(proto+ pink)		
7		1368	"	SW 1340	single col. isolate		best female strain which SW 1346, 1352			
8		1369	"	SW 1340	—" —		peculiar in regard to F13 infectio-			
9		1370	"	SW 1369 ×	SW 1346	Lac+ sel.	Lac+ F13	(Gal- H- M- S R)		
0		1371	"	SW 1369 ×	SW 1346	Lac+ sel.	Lac+ F13	(— " —)		
		1372	"	SW 1259 ×	W 3747	Lac+ sel.	Lac+ F13	(T Tyro S R, T M9)		
1		1373	"	SW 803	UV, penicillin		L	(F- white)		
2		1374	"	SW 803	UV "		Gly or Ser	(F- white)		
3		1375	"	SW 803	UV "		Ser	(F- white)		
4		1376	"	SW 1355	UV "		Isoleucine-	(P- S R F- white)		
5		1377	"	SW 1355	UV "		M-	(P- S R F- white)		
6		1378	"	SW 1361	UV "		P-	(M- S R F- white)		
7		1379	"	TM2 (85)	UV, Xyl		Xyl-			
8		1380	"	SW 1379	UV, penicillin		P-	(Xyl-)		
9		1381	"	SW 1379	" "		M-	(Xyl-)		
0		1382	"	SW 1344	" "		H-	(no other requirements, S R)		
		1383	"	SW 1382	" "		T-	(H- S R)		
1		1384	"	SW 1382	" "		C-	(H- S R)		
2		1385	"	SW 1344	" "		M-	(no other requirements, S R)		
3		1386	"	SW 1344	" "		Uracil-			
4		1387	"	SW 1340 ×	SW 1339	Lac+ sel	Lac+ F'	(Gal- H- M- S R)		
5		1388	"	SW 334 ×	SW 1339	Lac+ sel.	Lac+ F'	(Gal- M- S R)		
6		1389	"	SW 1379	UV, penicillin		Pantothenic acid-	(Xyl-)		
7		1390	"	SW 685	Sm		S R			
8	6/8/60	1391	"	SW 1364	UV		Hfr high for L, P	(M- Arom- S R)		
9		1392	"	SW 1366	Sm		S R	(H- white)		
0		1393	"	SW 1339 ×	SW 1363		Lac+ F'	(M- Arom- S R)		
		1394	F. Dicker	(Letter 25/5, 1960)			NO.5 S. java 4, 5, 12 : b : — (female to W3267)			
1		1395	"	(— " —)			N:1895 S. miami 1, 9, 12 : a : 1, 5 (— " —)			
2	7/7/60	1396	H Mäkelä	SW 803	infected from W 6		F+			
3		1397	"	SW 1355	UV pen.		H-	(P- S R)		
4		1398	"	SW 803	infected from SW 1364		F+			
5		1399	"	SW 1360	UV mal		Mal-	(P- Arg- H- S R)		
6		1400	"	SW 1366 ×	W 4678	sel. for H+	proto, apparently also F+			
7										
8										
9										
0										

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1960 REF:

date	№ SW	Ref	Source	Agent	Mutation & Characteristics
7/7/60	1401 ✓	H. Mäkelä	SW 779	Sm	S^R, also white
	1402 ✓	"	SW 1401	inf. from SW 1364	F^+ (S^R, pink)
	✓1403 ✓	"	SW 1364	UV, "	Hfr high for H, infectious (M^- Arom$^-$ S^R)
	✓1404 ✓	"	SW 1399	UV, Aux	Ara$^-$ (Mal$^-$ P^- Arg$^-$ H^- S^R)
9/30/60	✓ 1405 ✓	"	SW 1373	Sm	S^R (L^-)
	✓ 1406 ✓	"	SW 1355	UV, pen	yeast extract (P^- S^R)
	✓ 1407 ✓	"	SW 1396	UV, selection for Hfr	Hfr for Indican, Histidin; infectious
	✓ 1408 ✓	"	SW 1398	— " —	— " — — " —
	✓ 1409 ✓	"	SW1357 × SW1391 on DO+Arg		P^+ (Arg$^-$ S^R)
	✓ 1410 ✓	"	SW1376 × SW1391 on DO + I		P^+ (Isoleucin$^-$ S^R)
	✓ 1411 ✓	"	SW1406 × SW1391 on DO + YE		P^+ (yeast extract$^-$ S^R)
	✓ 1412 ✓	"	SW 1392 × — P22/SW 943		i : enx (H^- S^R)
	✓ 1413 ✓	"	SW 1412 × — P22/SW 943		i : 1.2 (H^- S^R)
	✓ 1414 ✓	"	SW 1355	UV, penisillin	L^- (P^- S^R) $P22^R$
	1415	"	SW 1355	— " —	M^- (P^- S^R)
	✓ 1416 ✓	"	SW 1355	— " —	yeast extract (P^- S^R)
	✓ 1417 ✓	"	SW 1404 × 1391 on DO		proto (Mal$^-$ Ara$^-$ S^R)
	✓ 1418 ✓	"	SW 1356	selection for Hfr	Hfr high for M, infectious
	✓ 1419 ✓	"	SW 1404 × 1399 on B Lac Sm		Lac$^+$ Barium F^+ (mal$^-$ ara$^-$ S^R P^- Arg$^-$ H^-)
	✓ 1420 ✓	O Mäkelä	American Type Cult. Coll. 8392		Salm. sp. serotype beta 9,12: l,v : —
	✓ 1421 ✓	H Mäkelä	SW 1403	motility selection	F^- Hfr$^-$ (M^- Arom$^-$ S^R)
	✓ 1422 ✓	"	SW 1421 infected from 1398		F + Hfr " (— " —)
	✓ 1423 ✓	"	SW 1355 — " —		F^+_{coli} (P^- S^R)
	✓ 1424 ✓	"	# SW1413 × SW1391, sel. for H^+		x^+ — : 1.2 monophasic "9"
	✓ 1425 ✓	"	— " —		"20"
	✓ 1426 ✓	"	— " —		"16"
	✓ 1427 ✓	"	— " —		"14"
	✓ 1428 ✓	"	— " —		[illegible] "11"
	✓ 1429 ✓	"	# W 3462 × SW1391, sel for H^+, x^+		[illegible] / b : — partly rough
	✓ 1430 ✓	"		2	[illegible] H_2 : — — " —
	✓ 1431 ✓	"		3	OK 100+ H_2 : —
	✓ 1432 ✓	"		4	[illegible] b : — partly rough
	✓ 1433 ✓	"		5	[illegible] b : — — " —
	✓ 1434 ✓	"		6	[illegible] H_2 : — — " —
	✓ 1435 ✓	"		7	[illegible] H_2 : — — " —
	✓ 1436 ✓	"	# 3462 × SW1391 sel for H	5	H_2 : — — " —
	✓ 1437 ✓	"	SW 1436, selection NGA + antis. H2		not aggl. in H2 serum
	✓ 1438 ✓	"	# 3462 × SW1391, sel. for H	12	CD (+ H_2 : —
	✓ 1439 ✓	"	SW 1438, sel. NGA + antis. H2		not aggl. in H2 serum
12/27/60	✓ 1440 ✓	"	SW 1355	UV, penicillin	Tryp$^-$ (P^- S^R)
	✓ 1441 ✓	"	SW 1355	— " —	H^- (P^- S^R)
	✓ 1442 ✓	"	SW 1404	UV	Xyl$^-$ (Mal$^-$ [illegible] Ara$^-$ S^R P Arg H)
	✓ 1443 ✓	"	SW 1398	UV	Mal$^-$ (F^+)
	✓ 1444 ✓	"	SW 1391	Hfr reisolation after NGA	Hfr
	✓ 1445 ✓	"	SW 1361	UV, pen	yeast extract S^R
	✓ 1446 ✓	"	SW 1398	UV, sel. for Hfr	Hfr high for Arg, M, H see lists of Hfr's
	✓ 1447 ✓	"	— " —		— " —
	✓ 1448 ✓	"	— " —		— " —
	✓ 1449 ✓	"	— " —		— " —
	✓ 1450 ✓	"	— " —		— " —
	~~1451~~	"	~~— " —~~		
	~~1452~~	"	~~— " —~~		~~Hfr high for "Mutanten" Proline~~
	~~1453~~	"	~~— " —~~		~~— " — — " — Leucin~~
	~~1454~~	"	~~— " —~~		~~Hfr high for His, Gal~~

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1960 REF:

C	date	Lyoph. SW Stab	Ref	Source	Agent	6	Mutation & Characteristics
12/27/60 1	12/27/60	✓1451 ✓	H Nikaido	SW 1398	UV, Hfr sel.		Hfr high for Arg - His (see card)
2		✓1452 ✓	-"-		-"-		Hfr high for YE, Pro -"-
3		✓1453 ✓	-"-		-"-		" " YE -"-
4		✓1454 ✓	-"-		-"-		" " His, Gal.. -"-
5		✓1455 ✓	"		-"-		-"-
6		✓1456 ✓	"		-"-		-"-
7		✓1457 ✓	"		-"-		Hfr high for His, Arom.... -"-
8		✓1458 ✓	"		-"-		-"-
9		✓1459 ✓	"		-"-		-"-
0		✓1460 ✓	"		-"-		-"-
		✓1461 ✓	"		-"-		-"-
1		✓1462 ✓	"		-"-		-"-
2		✓1463 ✓	"	SW 943	inf. from SW 1364		F+ (S^S i: 1,2, a-r rough)
3		✓1464 ✓	"	SW 1413	UV		Gal− (His− i: 1.2 S^R
4		✓1465	"	"	"		Mal− (-"-)
5		✓1466 ✓	"	"	"		Mtl− (-"-)
6		✓1467 ✓	"	SW 1466	"		Mal− (Mtl− His− S^R i: 1.2)
7		✓1468 ✓	"	SW 1248	"		Mal− (M− S^R ; TM9)
8		✓1469 ✓	"	SW 1355	× P22 (SW 943)		i (P− S^R
9		✓1470 ✓	"	SW 1376	"		i (P− Inol−) S^R
0		✓1471 ✓	"	SW 1377	"		i (P− M−) S^R
		✓1472 ✓	"	SW 1378	"		i (M− P−) S^R
1		✓1473 ✓	"	SW 1397	"		i (P− H−) S^R
2		✓1474 ✓	"	SW 1441	"		1.2 (P− H−) S^R
3		✓1475 ✓	"	SW 943	UV		Mal− (i: 1.2)
4		✓1476 ✓	"	SW 1444	NG A selection		F−, F resistant
5		✓1477 ✓	"	SW 1448	-"-		F− ~~Hfr~~
6		✓1478 ✓	"	SW 1452	-"-		F− ~~Hfr~~
7		✓1479 ✓	"	SW 1462	-"-		F− ~~Hfr~~
8		✓1480 ✓	"	1477	inf. from SW 1364		Hfr like SW 1448
9		✓1481 ✓	"	SW 1478	-"-		-"- SW 1452
0		✓1482 ✓	"	SW 1479	-"-		-"- SW 1462
		✓1483 ✓	"	SW 1001	UV, Sm selection		S^R (1.2: −) (S. abortus equi)
1		✓1484 ✓	"	-"-			-"- -"-
2		✓1485 ✓	"	SW 803	inf. from W 3747		F_{13}^{+} Lac^V
3		✓1486 ✓	"	"	-"- SW 1365		F_{13} stable + Lac+
4		✓1487 ✓	"	"	× SW 1419		Lac+ Hfr Baron+
5		✓1488 ✓	"	SW 1034	UV, Sm		S^R (a: −) (S. abortus equi)
6		✓1489 ✓	"	SW 1353	spont.		fla− (S^R)
7		✓1490 ✓	"	SW 1473 × 1403,	P+ sel.		Arom. P (His− i: enx S^R)
8		✓1491 ✓	"		-"-		
9		✓1492 ✓	"		-"-		Arom− P+ His+ (i: enx S^R)
0		✓1493 ✓	"	SW 1442	× SW 1463		P− Arg− ; poor motility, Ara− Mal− Xyl− S^R
		✓1494 ✓					
1		✓1495 ✓	STOCKER	LISTER	—		LT2 wild-type
2		✓1496 ✓	"	FUKASAWA & NIKAIDO's (LT2-M1)			LT2 gal-sensitive (epim−)
3		✓1497 ✓	"	LISTER M10			LT2 ade67 proA46 H1^{i M10} fla, S^R
4		✓1498 ✓	"	" M10 gal-sens			M10 gal-sensitive
5		✓1499 ✓	NOSSAL	Edwards	S. habana (O: 1,13,23; H: f,g, −)		
6		✓1500 ✓	"	"	S. morehead (O: 30; H: i, 1,5)		
7							
8							
9							
0							

MICROBIAL GENETICS

SW 1501-50

1961 REF:

date	SW	Ref	Source	Agent	Mutation & Chars.
7-19.	√1501 √	Redn Browne AS.		S. Hvittingfoss	16: b - enx
	√1502 √	(Engel + Nosal)		S. Horsham	(1) 6,14,25: W - enx
	√1503 √	"		S. minnesota	21: b - enx
	√1504 √	"		S. urbana	30: b - enx
	√1505 √	Engel from Rountree		S. muenchen	6,8 : 1,2 - d
	√1506 √	Engel from B. Stocker	NCTC 5722	S Derby	1,4,12: f,g.
	√1507 √	"	NCTC 5721	S Derby	4,12: f,g
	√1508 √	"	BAL 2212-59	S. Derby	1,4,12 f,g
III/19/71	1509	B. Ames	TA 1530		His⁻ gal^Δ biotin^Δ UVrB^Δ chlorate^Δ
"	1510	"	TA 1531		" " " " "
"	1511	"	TA 1532		" " " " "
"	1512	"	TA 1724 (path.) in 1534		" "
IV/2/71	1513	Stocker (Luther)	SL [illegible]		lys⁻ A8 gal-epir
V/24/71	1514 LT-2	"	big colony		wild
	1515 "	"	small colony		"
X/2/72	1516 "	"	SL1670		Fus or Fels1 & Fels2, Nal^R, P22 sens
"	1517 LT7	"	SL3613		Pro AB Lur E
X/10/72	SW1518	"	EL 199		MetAE trp ilva (leaky) his⁻ res mod⁺ P1 sens xyl⁻ str^r gal⁻ epi (H1 a H2 [illegible]) (Fels2⁻ Fels, + m VV)
X/16/72	SW1519	"	SL1027 √		Sm^R, met⁻ trp⁻, P22 sens
I/12/73	SW1520	"	TA 1659 √		LT2 gal (chl, bio, uvrB)Δ
"	SW1521	"	SL 1694		= TA 4659 (F'8 gal⁺)
I/29/73	SW1522	Weinrik	Pro C90		Proline
"	SW1523	"	ST Thy 57 (P22 C2^29) 25 √		lysogen ST Thy 57 (P22 C2^29)
II/28/73	SW1524	Stocker	SL N81		SD14, fla, str, xyl, [illegible] s11, sfa F⁻
V/1/73	SW1525	"	SL1542		LT2 his (nft) Δ-519
"	SW1526	"	SL1667		LT2 his (nft) Δ-520
"	SW1527	"	TA1674		LT2 gal (chl, aroG, bio, chl, uvrB) Δ
"	1528	"	TA1701		his⁻ C3076 (gal, bio, chl, uvr, uvrB)Δ
"	1529	"	TA1656		(aroG, gal, bio, chl, uvrB) Δ
"	1530	"	SL1102		fla, str, xyl (leaky) sfaE⁻
"	1531	"	SL3759		Arg E 116
"	1532	"	TA1657		chl, bio, gal, uvrB
"	1533	"	TA1701		his⁺
"	1534	"	SL1746		LT2 met E47 gal E160 epi⁻ leaky
"	1535	"	SL1751		SL1946 (F'8 gal⁺)
"	1536	"	SL1747		LT2 met E47 gal E161 epi⁻ leaky
"	1537	"	SL1752		SL1747 (F' gal⁺)
"	1538	"	LT2-M1		gal E epi⁺
"	1539	"	SL1916		LT2-M1 (F'8 gal⁺)
X/16/73	SW1540	Baron	WR4255	Coli-S. typhimurium hybrid	cys⁻ thy⁻ met⁻ str^R
XII/11/73	1541	Stocker	SL1657		Gal⁻ (rough) restriction⁻
"	1542	"	SL1654 (CL4419)		Smooth restriction⁻
4-1-75	SW1543	B. Cohen	Galvez Stream, Stanford	SW1543h	wild — small & flat smaller than E. coli tiny gram neg rods, motile
4-1-75	SW 1544	"	SW1543	MTG etc.	Threonine — R.F. day 3 = 1.3×10⁻⁶ + background tiny colonies
4-1-75	SW 1545	"	1543	" slants made	Vits. — R.F. day 5 = 1.99×10⁻⁸
"	SW 1546	"	1543	" from	glycine + serine⁻ — R.F. day 5 = 0.35×10⁻⁸
"	SW 1547	"	1543	" heavily	histidine⁻ — R.F. days = 3.7×10⁻⁸
"	SW 1548	"	1543	" streaked	arginine⁻ — R.F. day 5 = 0.65×10⁻⁹
"	SW 1549	"	1543	" area of	valine⁻ — R.F. day 5 = 0.51×10⁻⁹
"	SW 1550	"	1543	" plate)	threonine⁻ — R.F. day 5: 0.14×10⁻⁹
"	SW 1551	"	1543	"	methionine⁻ — R.F. day 5: 1.5×10⁻⁸

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19 REF:

	1 date	2 SW	3 Ref	4 Source	5 Agent	6	7 Mutation + chars.	8	9	10
1	4-1-75	SW1552	B. Cohen	SW1543	NTG	R.F. = 0.5×10^{-9}	Group II AA⁻ - lacey appearance of growth at edges but test for AAs.			
2	4-1-75	SW1553	"	"	"	R.F. = 21	Group III AA⁻ - but only light growth upon + of Group II			
3	4-1-75	SW1554	"	"	"	2 kinds of colonies even after 3 pur. + reactions.	AAs if more than 1 group needed R.F. = 7.6×10^{-8} tiny colonies heaviest growth II → III → I → IV → V lightest growth			
4	4-1-75	SW1555	"	"	"	R.F. = 2.1×10^{-8}	Group I AA⁻ leaky for Vits + NAs			
5	4-1-75	SW1556	"	"	"	R.F. = 3.7×10^{-7}	are not made + by addition of AAs or Vits By + of NAs → tiniest colonies			
6										
7	4-1-75	SW1557	"	"	"	R.F. = 1.3×10^{-8}	are not made + by addition of AAs or Vits By + of NAs → tiniest colonies			
8	4-1-75	SW1558	"	"	"	minimal plates	heavily positive day 2			
9	4-1-75	SW1559	"	"	"	"	"	"	"	
0	4-1-75	SW1560	"	"	"	"	"	"	"	
	4-1-75	SW1561	"	"	"	"	"	"	"	
1	4-1-75	SW1562	"	"	"	"	"	"	"	
2	4-1-75	SW1563	"	"	"	2 kinds colonies after 3 NA purifications (tiny + large) 30 + day 2; background tiny colonies also.				
3						AA⁻. Addition of Vits or N.A.→ background tiny colonies + sev. large ones.				
4	4-1-75	SW1564	"	"	"	"	"	"	"	(tiny + large mucoid)
5	4-1-75	SW1565	"	"	"	"	"	"	"	(small + large)
6										
7						Addition of AAs or Vits or N.A. → + 2 both kinds of colonies				
8	1-7-76	SW1566	Colon	SL1642			LT7, RoC90, r_{LT}^{-} m_{LT}^{-}			
9										
0										
1										
2										
3										
4										
5										
6										
7										
8										
9										
0										
1										
2										
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0										