

Stock-book Non E. coli

(removed June 13 1958)

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Actinomyces

Agrobacterium

Pseudomonas

Yeast

Salmonella
enterica

Phages

Actinomyces

WAc	Ref	Source	Notes
1	S. griseus (1947)	McCoy	Walsman #4 Rutgers 3496. ^R 5m 25a/ml
2	879-1 WAc-1		Arginineless (slow ± on minimal)
3	879-2 WAc-1		Leucine
4	880-		no residuum
5	" -6		± on minimal
6	"		no residuum
7	"		
8	"		
9	"		
10	S. violaceus	McCoy 12/25/51	Frugrowth poor spor.
11	S. olivaceus		good growth, population in minimal nutrient
12	S. gypsoides		fully colonies, diffusing pigment
13	S. rechequelae	NRRL 12/31/51	B-902
14	S. lauridulce	"	B-547
15	S. antibioticus	"	B-1115
16	S. celicolor	"	B-1257
17	S. griseocarnus	"	B-1068
18	8807- WAc II		
19	"		
20	"		
21	Burkholder 8	S. griseus	threonineless B,
22	" 16	"	threonine
23	" 17	"	methionine
24	" 18	"	uracil-arginine

10-25-54	30V		
10-25-54	31W		
10-25-54	32W		
10-25-54	33W	Streptomyces sp	wild types isolated at Evanston Illinois 1954
10-25-54	34W		
"	35W		
"	36W		
"	37W	WAc-36	golden colored
"	38W	WAc-36	lavender gray colored
"	39W	WAc-34	serine or cysteine def.
"	40W	WAc-34	tryptophane def.
WAc	41W		
WAc	42W		
WAc	44W		
WAc	45W	ex WAc 32	leuc-green
WAc	46W		S. cyanus
WAc	48W		
WAc			
WAc	51W		
WAc	52W		
WAc 59		WAc 34	S. griseus Trypt- Purine- (GorA out or H)

WAc -

DATE: Nov 9 1955

REF: New isolates

[illegible]

Agrobacterium Stocks

DATE:

REF:

WCG#	Ref	Source	Agent	5	Remarks	8	9	10
	Dec	AG: Riker			A. tumefaciens AG, virulent			
	Dec	Riker	selection		A. tumefaciens AG-6, attenuated			
4	"	AG-6 / selection	selection		SM polymerase resistant AG			
5	"	AG-6	selection		SM polymerase resistant AG			
6	"	AG-6	selection		SM resistant AG-6			
7	"	AG-6	per. selection		SM resistant AG-6			
8	"	AG-6	per. selection		auxotroph			
9	"	AG	UV		auxotroph			
10	10	"	UV		auxotroph			
11	"	"	UV		"			
12	"	"	UV		"			
13	"	"	UV		"			
14	"	"	UV		"			
15	"	"	UV		"			
16	✓	AG	UV		Biotin-			
17	Novick S4	AG Klein S5-6			Tryptophane-			
18	Novick S4	S4			Tryp-B-			
19	Novick S4	S4			Tryp-S ⁺			
20	20	Novick S7			Methionine-			
21	Novick S7	S7			Meth-Tryp-			
22	Novick S7	S7			Meth-B ⁺ -			
23	Novick S7	S7			Meth-Adenine-			
24	Novick S7	S7			Meth-S ⁺			
25	Novick N4	Klein N4V-1			Tryptophane-			
30								
40								
50								

Pseudomonas fluorescens

STOCKS

PF	Ref.	Source	Agency	Remarks	
0	A3.12	Stanier	ne PF 5	Wild type	
1 ✓	761-1	PF 0	UV-Penicillin	Histidine ?	H -
2 ✓	761-2	"	"	Isoleucine-Valine	IV -
3 ✓	761-7	"	"	Phenylalanine	Pa -
4 ✓	761-9	"	"	TRYPTOPHANE	Tr -
5 ✓	761 b	PF 3	Streptomycin METAB	Pa - SR	Pa - SR
6 ✓	761 b 1	PF 0	uv-penicillin	Leucine	L -
7 ✓	" b 4	"	"	Guanine (Hypox +; Adeniz)	Gu -
8 ✓	" b 6	"	"	ARGININE	Ar -
9 ✓	" b 8	"	"	METHIONINE	M -
10 ✓	761-5	PF 0	"	Phenylalanine; leuc+isoleu+val	
11 ✓	761-14	PF 0	"	Met B 12 + Y. Nucleic (Pys + Cys)	
12 -	-	PF 6	Streptomycin-resistant	Leucine SR	L - SR
13 x	-	PF 16	"	A3.16 SR	
14 x	-	PF 17	"	A3.17 SR	
15 ✓	A3.12	Stanier	Formerly PF 0		
16 x	A3.16		Received from Stanier		
17 ✓	A3.17		" " "		
18 ✓	" T 23		" " "		
19 ✓	870-1	PF 12	uv, Penicillin	Leuc SR; Isol. Val	
20 ✓	-2			TRYPT.	
21 ✓	-3		P-12/10th	UNIDENTIF. C. ⁶⁰⁰² fluorescens	
22 ✓	-4			HIST	
23 ✓	-1	PF 9	UV, Penicillin	Metu	
24 ✓	-2			Isol. Val.	
25 ✓	-3			TRYPT.	
26 ✓	-4			HISTIDINE	
27 ✓	-5			CYSTINE	
28 ✓	-6			Met B 12 CYSTINE	
				Guanine	

Yeast cultures.

WY	Ref.	Source	Remarks
1 ✓	Pomper 62	(1100)	Prototroph a S. cerevisiae dispense
2 ✓	Pomper 63		" " " for
3 ✓	Pomper 62-20-194		typ, uracil a " for
4 ✓	Pomper 67-1		meth, aden a " dispense
5 ✓	Rotman S. fragilis		
6 ✓	Rubbo 4/2/53	Red Star (Fresh)	isolated from com. product
7 ✓	"	Red Star ADY (dry)	"
8 ✓	"	WY-6	euphramine-induced "petite"
9 ✓	" 12/17/53	WY 6	euphramine-induced petite
10 ✓	" 12/17/53	WY 6	euphramine-induced petite
11 ✓	" 12/18/53	WY 7	euphramine-induced petite
12 ✓	" 12/23/53	WY 5	euphramine-induced petite
13 ✓	Lederberg 1/3/54	WY 3 X WY 4	Difflord cross of WY 3 & WY 4 disp.
14 ✓	Tatum 1/19/54	99Ra (from leucine)	Ady (pink)
15 ✓	2018a		meth
16 ✓	2022a		"
17 ✓	200a		ad3 typ uracil granular
18 ✓	201a		typ uracil dispense
19 ✓	2033a		meth
20 ✓	2508a		ad typ dispense
21 ✓	Lindergren 1/21/54	15189	a g S H A M E M G
22 ✓	"	14854	u g S H A M E M G poor growth
23 ✓	"	215.52	12965
24 ✓	"	215.54	13893
25 ✓	ephami	210.54	59RT
26 ✓	ephami	210.54	59RA
27 ✓	Ruthe	12.2.54	WY 1 UV irradiation Methionine less
28 ✓	"	14.2.54	Difflord cross WY 15 X 17 Phototroph
29 ✓	"	14.2.54	Difflord cross WY 15 X 18
30 ✓	"	14.3.54	Petite en WY 15
31 ✓	"	14.3.54	Petite en WY 16
32 ✓	"	14.3.54	Petite en WY 4
33 ✓	"	14.3.54	Petite en WY 18
34 ✓	"	14.3.54	Petite en WY 3
35 ✓	"	14.3.54	Petite en WY 3
36 ✓	"	14.3.54	Petite en WY 17
37 ✓	Caroline Raut	50.2	a
38 ✓	"	108.3N	a th Me Gal
39 ✓	"	159.4	a ad Gal Mal
40 ✓	"	168.4	a pa th Gal
41 ✓	R. R. FOWELL	DCL 536	
42 ✓	28/9/54	HMH+	
43 ✓	"	HQ5a-	
44 ✓	"	HQ10c-	
45 ✓	Red. 10/20/54	WY 38 - UV.	
46 ✓	"	"	
47 ✓	"	"	
48 ✓	"	"	
49 ✓	"	"	
50 ✓	"	"	
51 ✓	"	"	
52 ✓	"	"	
53 ✓	"	"	
54 ✓	"	"	

Isolated from mixed cult. as record
 ✓ WY 39 = pure culture, OK as rec'd.

WY.	Ref.	Source	Remarks.
55 ✓	10/30/54	WY38, UV.	Am. ac. yeast cell
56 ✓	"	"	"
57 ✓	"	"	"
58 ✓	"	"	"
59 ✓	"	"	Am. ac. yeast cell
60 ✓	"	"	"
61 ✓	"	"	yeast cell
62 ✓	"	"	Am. ac. yeast cell
63 ✓	"	"	"
64 ✓	"	"	"
65 ✓	"	"	"
66 ✓	"	"	Am. ac. yeast cell
67 ✓	"	"	"
68 ✓	"	"	"
69 ✓	"	"	"
70 ✓	"	"	"
71 ✓	"	"	"
72 ✓	"	"	"
73 ✓	"	"	NAH - yeast cell
74 ✓	"	"	Am. ac. yeast cell
75 ✓	"	"	"
76 ✓	"	"	"
77 ✓	"	"	"
78 ✓	L.J. WICKERHAM.	NRRL Y1822	Diploid <i>H. subpelliculosa</i> .
79 ✓	11/1/54	" Y1683	"
80 ✓	"	" Y-1822-12	Mating type " "
81 ✓	"	" Y-1683-11	" " "
82 ✓	"	" Y1598	<i>Zygosaccharomyces ashbyi</i>
83 ✓	"	" Y2153	Bisexual diploid <i>H. anomala</i>
84 ✓	"	" Y-366	Unisexual " <i>H. anomala</i>
85 ✓	"	" Y2153-4	Mating type " "
86 ✓	"	" Y-366-8	" " "
87 ✓	"	" Y-1134	<i>Saccharomyces lactis</i>
88 ✓	"	" Y-230	"
89 ✓	"	" Y-1205	Mating type <i>S. lactis</i>
90 ✓	"	" Y-1140	"
91 ✓	REW	2/18/54 WY42 UV. (F-2)	leucine + arginine. R ⁺
92 ✓	"	" (F-4)	lysine R ⁺ (5)
93 ✓	Lindgren.	* 14240	16903 α s.e. Gal Malt & Meg Hel rat & Tryp H ur M P ₁ 7A
94 ✓	Rec'd 3/1/55	16068	16072 α + - - - - - + - - - - +
95 ✓	"	16072	16070 α - + + - - + - - - - - +
96 ✓	"	16071	16071 α - - + - - + - - - - - +
97 ✓	Rec'd.	276/3 #5r/1 A2	Ad - white white R ⁻
98 ✓	Ephraim.	515 #4	R -
99 ✓	7/2/55	53/19 α	S - (Quarterly S ⁻ R ⁻ as recommended)
100 ✓	"	53/19 c	S -
101 ✓	Raut.	112.3 N (Normal)	α Pa Math mega C
102 ✓	14/15/55	102.3 P-2 (petite)	same
103 ✓	"	102.3 P-3 (petite)	same
104 ✓	"	56.1 P (petite)	α pa Ma? Th Ma? Ga? C
105 ✓	"	146.1 (seg)	α pa MaTh C ₂
106 ✓	"	145.2 (seg)	α Pa MaTh C ₂
107 ✓	"	146.2 (seg)	α Pa math? C ₂

WY	Reference	Source	274/38r.	Remarks.
108 ✓	ROMAN 24/3	4240C - Ephrussi	α adh.	
109 ✓	"	4235D - "	α adh.	
110 ✓	REW. 24/12	spore seg. from D16 (91x8-16)	Th ⁻ R ⁺ S ⁺	
111 ✓	RHW	B4 dip 92x44	Th ⁻ petite.	
112 ✓	"	G3		
113 ✓	"	C4	dip. 26x42. (p 104 notes.)	
114 ✓	"	G4		
115 ✓	"	8-16	Th ⁻ petite from WY44 - UV.	
116 ✓	"	D14	91x8-16 proto selection.	} diploid.
117 ✓	"	D16	" " unselected	
118 ✓	"	10-25	In ⁻ ? from WY44 - UV	
119 ✓	"	2C (8-16x42)	dip. for test of nature of 8-16 petite.	
120	SPIEGELMAN 1/57.	WINGE'S STRAIN 55.	G.g. Madama D/d. - dip	S.c. x Sch. (LOST)
121	"	"	33-E-26.	" Nist. g. a.
122 ✓	R.E.W	91-L. α Ang ⁻ L ⁺ R ⁺		- LLI resistance (21.2g/L in 6TY) not clonally
123 ✓	"	91-LP3 " " R ⁻		stable.
124 ✓	"	91-LP5 " " "		} Geniflavine petites from 91-L.
125 ✓	"	91-LP7 " " "		
126 ✓	"	91-LP9 " " "		
127 ✓	"	110-Ac3. a Thz ⁻ Ac ⁺ R ⁺		- actidione resistant (10mg/L) - clonally stable.
128 ✓	"	110-Ac2 " " " "		
129 ✓	"	110-AP3 " " " R ⁻		- acriflavine petite from WY127.
130 ✓	"	110-P1 a Thz ⁻ R ⁻		" " WY110.
131 ✓	"	110-P4 " " "		" " "
132 ✓	"	D75. hybrid WY91 x WY44.		
133 ✓	"	D79. " WY92 x WY44.		
134 ✓	"	124-b α Ang ⁻ R ⁺	- Spore seg. from WY132.	Not stim. by leucine: ^{spontaneous} Dotted
135 ✓	"	113-b α Ang ⁻ " "	"	Will not sporulate
136 ✓	"	T1 Hybrid 91-L x 110-Ac3.	} Sporulation +.	
137 ✓	"	T6. " (WY122) - (WY127)		

Sp 3 *Spirillum stevensi*

SM-6 Baron (May 1960) *Sevatia marcescens* original culture
SM-6-11 " " S^R high freq. recipient
SM hybrid 6 L⁺ " " S^S lat⁺ from cross of ST2 x SM6 → 6L⁺
(= donor now for lat)

NB: There is a *Sevatia* in the Coli pool too, W 2745

Coli and Salmonella phages.

("pp - ")

Source p.		Host range. + characters.						
1	Sewage	225	SY-20	small plaque	K-12	S		
2	"	225	SY-20	small plaque	K-12	S		
3	"	225	SY-21	small large plaque, many centers				
4	"		SY-21	large plaque				
5	SY-21	226	SY-36	(S. gallinarum) only.				
6	Sewage		SY-21	moderate spiculate plaque	SY-21; SY-23.			
7	SY-23	W2. -	SY-21	small plaques (maybe two @),	SY-36.			
8	Sewage	458-2	K-12	large plaque				
9	Sewage	458-20	K-12	small plaque, high titer				
10	Hershey	T16	K-12	small plaque				
11	"	Obordet Small	K-12	wide margins				
12	"	C36	K-12	very wide margins on W811				
13	Luria		K-12	≥ C36.				
14	Sewage	458-C1	K-12	<u>Lysogenic</u>	see W1297	few resistant		λ2?
15	"	" C2	K12					
16	"	" C3	K12					
17	"	" C4	K12					
18	"	" C5	K12					
19	"	481.	W518	(λ-) but not W811 (λ+)!				
20	Sewage	499	W518	not W811.				
21	p20	513	Mutant of p20;	attacks W811.				
22	Sewage	458a	K-12.					

- 65
- 66
- 67
- 68
- 69
- 70 *hep...*
- 71 SW10012
- 72 SW10062
- 73 SW1007C
- 74 0361(b)
- 75 1005
- 76 1004
- 77 1030
- 78 1032
- 79 1033
- 80 1034
- 81 1046.1
- 82 1046.12
- 83 1035
- 84 *S. gallin...*
- 85 *S. pullum...*
- 86 SW1043
- 87 1045
- 88 1049
- 89 926
- 90 PB-1300
- 91 SW1061
- 92 SW1092
- 93 SW940

Cop.

sp. I

abc - d SW-936

(mostly a) A: pura

(part)
m
S 12

Salmonella typhimurium Stock Cultures

Lilleengen cultures

No.	Representative Used	Other
LT-1	84 = TM1	306✓✓
LT-2	85 = TM2	87✓✓
LT-3	22	525
LT-4	125	536✓✓
LT-5	193	
LT-6a	205	
LT-6b	538	119
LT-7	578 BADS	203✓✓
LT-8	43	590
LT-9	116	497, 504
LT-10	414	
LT-11	74✓✓	82✓✓
LT-12	117	114✓✓
LT-13	167✓✓	331
LT-14	135	199, 11412
LT-15	297✓✓	508, 518✓✓
LT-16	9✓✓	23✓✓
LT-18✓✓	100	89
LT-19	2✓✓	
LT-20	428	
LT-21	192	
LT-22✓✓	409 BADS	426

Edwards cultures

No.	Details
S-20	" Monophasic I
S-21	" " II " Edwards 1946.
S-23	Diphasic = Wheeler & Borman 3542.
12.	S.typhimurium var. copenhagen
13.	" " "O" form
14.	" " phase II Edwards

Hershey culture

No.	Details
SW-36	S.typhimurium var. Webster

Boyd cultures

No.	Details
1404	Supposedly non-lysogenic
1411	" " " "

Berman cultures

No.	Details
SW-516	Vet. Sci. Mouse colony
SW-517	" " " "

Salmonella Serotypes

Obtained from Edwards--- number refers to station circular # 54

= SW 701-~~800~~ 900

1. ✓✓ S. paratyphi A
2. ✓✓ S. paratyphi A var. durazzo
3. ✓✓ S. paratyphi B *self-typing (hyphil 703A, 703B)*
4. ✓✓ S. paratyphi B
6. ✓✓ S. paratyphi B phase II *12, 13 ✓*
15. ✓ S. stanley
16. ✓ S. heidelberg
17. ✓ S. chmester
18. ✓ S. san-diego
21. S. derby
27. S. abortus-ovis
28. ✓ S. abortus-bovis
36. ✓ S. cholerae-suis var. kunzendorf
50. ✓ S. newport
56. ✓ S. glostrup
57. ✓ S. typhi H 901 W B ADS (hyphil #SW757)
59. ✓ S. typhi 2V
60. ✓ S. typhi Watson V
- S. typhi V-E 1
- S. typhi V-F 1
- S. typhi
- S. typhi
64. S. enteriditis
67. S. moscow
68. ✓ S. hlegdam
70. ✓ S. eastbourne -
71. ✓ S. sendai
74. ✓ S. gallinarum
75. ✓ S. pullorum
76. ✓ S. london
87. ✓ S. senftenberg
90. ✓ S. aberdeen
91. ✓ S. poona
92. S. worthington
95. S. hvittingfoss (SW 745)
98. ✓ S. kentucky
103. ✓ S. abony (hyphil 803A, 803B)
105. S. wichita
119. S. habana
125. ✓ S. altendorf
128. S. vejle
129. ✓ S. montivideo
134. E. coli-1
137. ✓ E. coli-2
139. ✓ E. coli-3
140. ✓ E. coli-4 (hyphil 840A, 840B)
142. ✓ E. coli-5
145. S. kaapstad
148. ✓ S. salinatis
162. ✓ S. florida ✓
163. S. madelia phase I

SW 777 ✓✓

SW 778 ✓✓

SW 779 ✓✓

SW 783 ✓✓

SW 786 ✓✓

SW 788 ✓✓

SW 809 ✓✓

Salmonella phages

No.	Source	Details
SP-1	Sewage	SY-20 small plaque
SP-2	"	SY-20 small clear plaque
SP-3	"	SY-21 large hazy plaque
SP-4	"	SY-21 large clear plaque
SP-5	SY-21	S.gallinarum
SP-6	Sewage	SY-21; SY-23
SP-7	SY-23	SY-21
SP-49	Rittenberg	S. cholerae-suis
SP-50	"	S. poona
HP-21	Hershey	SW-36 Large plaque
HP-13	"	" Small "
HP-15	"	" Medium "
HP-18	"	" " "
HP-20	"	" Hazy small plaque
HP-22	"	" Medium plaque
HP-23	"	" Small "
LP-30	Lilleengen	LT-14 # 135
LP-39	"	LT-13 # 331
LP-36	"	LT-22 # 409
LP-34	"	LT-12 # 111
LP-31	"	LT-4 # 125
LP-33	"	LT-16 # 23
LP-8	"	LT-11 # 74 LT-6b #119
LP-32	"	LT-11 # 74
LP-37	"	LT-1 # 306
LP-4	"	LT-3 # 22
LP-2	"	LT-19 # 100
LP-28b	"	LT-5 #193
PLT--	LT--	Any phage obtained from lysogenic members of LT

~~LT~~

PLT' LT phage from PLT via activation

942-1 Balgobor Balgobor's X phage C

942-2 " phage A

85P Uetake Phage from S. elandiae 7482 (S21124).
 86P .. " S. new-hausenensis 5411 (S21125)
 E2-17 .. " S. cambridge (S21126)
 E2-27 .. " S. kinhasa (S21127).

8 ✓
 1 para A
 23 pullorum
 14
 15
 16
 17
 18 abortusbovis
 22 typhar ✓
 23 typhar *
 24 abortus equi
 25 newport
 26 london
 28 urbana
 30 inverness
 31 adelaide
 32 montevidoe
 33 panama
 34 para A
 36 ~~35~~ gallinarum
 37 dublin
 39 typhar
 40 typhar
 42 para A
 43 enteritidis
 46 enteritidis
 51 para B
 52 para B
 53 para B
 54 para B
 56 cholerae suis
 57 typhi suis
 58 abortus ovis
 61 typhar IV variant Methionineless.
 70 typhar methionineless
 71 typhi suis Bethdarsel 2943
 72 para A 3 " " 3007
 73 sendai " " 3280
 74 typhi VW
 75 para A
 76 para A ✓ Kauffmann.
 77 para A durazzo "
 78 typhi 3 "
 79 typhi Watson ✓ " — KAD.
 80 sendai "
 81,2 blegdam "
 83 typhar
 854 kentucky
 115 coli 1
 139 anatis
 20 } typhimurum 1 + 2.
 21 }

SALMONELLA

SW	Reference	Source	Agent	Mutation	Details
1.	I IV V,1,--	prtotrophic		S-20	monophasic I Edwards
2.	I IV V,-,1,2,3	"		S-21	" II "
3.	208	SW-1	U.V.	Histidine	
4.	"	"	"	"	
5.	"	SW-2	"	Yeast Extract	
6.	208	"	"	PAB weak response	
7.	"	SW-2	"	Leucine-iso leucine-valine	
8.	"	"	"	Tryptophane	
9.	"	"	Spontaneous	Xylose variable (#)	
10.	"	SW-8	U.V.	Arabinose (-)	
11.	-----				
12.		SW-10.	Sp6	Sp6R	(nutrition uncertain)
13.	260	SW-7	U.V.	Galactose (-)	Sp6S
14.	NZ 9/1/48 4	SW-1	U.V.PEN	Leucine	
15.	" " 1	"	" "	leucine replaceable by A 12	(CM)
16.	2 9/14 1	SW-3	" "	(Histidine) Proline	
17.	" B1	SY-23	" "	Histidine	
18.	" B2	"	" "	Leucine	
19.	" B3	"	" "	Methionine	
20.	" B4	"	" "	Cystine or methionine	
21.	" B5	"	" "	"	
22.	" B6	"	" "	A 12 any	
23.	" B7	"	" "	A 5 not single	
24.	" B1a	SW-17	" "	Lysine # methionine	
25.	" B1b	"	" "	Threonine	
26.	" B1c	"	" "	A-12-(all)---	
27.	" B2a	SW-18	" "	Methionine	
28.	" B2b	"	" "	"	
29.	" B2c	"	" "	Ess. A.A.	
30.	" B2d	"	" "	A 12 (only)	
31.	" B2e	"	" "	"	
32.	" B3a	SW-19	" "	Proline (OH proline)	
33.	" B3b	"	" "	Leucine	
34.	" B3c	"	" "	Proline (OH proline)	
35.	" B3d	"	" "	Histidine	
36.	" B3f	"	" "	Cystine	
37.	Hershey	S. Webster			
38.	NZ B1c	SW-17	" "	A 12 only	
39.	" B9	SY-23	" "	Phenylalanine,tyrosine (both)	
40.	" B11	"	" "	Proline	
41.	" B16	"	" "	Histidine	
42.	" B10	"	" "	Methionine	
43.	" B1d	SW-17	" "	Proline	
44.	" B1e	"	" "	Methionine	
45.	" B2g	SW-18	" "	"	
46.	" B2h	"	" "	"	
47.	" B3g	SW-19	" "	Proline	
48.	" B3h	"	" "	"	
49.	" B3j	"	" "	Iso-leucine # valine	
50.	Rittenberg	S. cholerae-suis		(requires B1)	
51.	"	S. poona			
52.	NZ 10/19	SW-25	U.V. plates	Maltose (-)	
53.	"	"	"	"	
54.	"	"	"	"	
55.	"	"	"	"	

Salmonella Con't

SW	Reference	Source	Agent	Mutation	Details
56.	NZ 11/2	SW-50	U.V. PEN.	Cystine	
57.	" "	"	" "	Cystine # methionine	
58.	" "	"	" "	Leucine	
59.	" "	"	" "	Pyrimidine (uracil)	
60.	" 11/4	"	" "	A 12	
61.	" "	"	" "	"	
62.	" "	"	" "	"	
63.	" "	"	" "	"	
64.	" "	"	" "	"	
65.	" "	"	" "	?	
66.	" "	"	" "	?	
67.	" 11/5	SW-52	" plates	Arabinose (-) glucose -	
✓68.	" "	"	" "	"	
69.	" "	"	" "	"	
70.	" "	SW-31	" "	Galactose (-)	
71.	" "	"	" "	"	
72.	" "	"	" "	"	
73.	34R Rittenberg	SW-49		SP 49 R	
74.	91 M "	SW-50		Arginine	
75.	" 2 "	SW-74		Arginine Purines(NZ xanthine)	
76.	Hershey (NZ)	SW-36	Spontaneous	Bl or Ca pnt.	
77.	#/14	SW-36(76)	U.V. PEN	Cystine (Bl)	
78.	NZ 3/25	"	" "	Cystine (serine)	
79.	" "	"	" "	"	
80.	" 3/29	"	" "	" (arginine)	
✓81.	" "	"	" "	Leucine	
82.	" 4/26Y	"	" layer	"	
83.	" " 2	"	" "	"	
84.	" 4/29	SW-58	U.V. PEN	Glutamic (proline)	
✓85.	" "	"	" "	Cystine	
86.	" "	"	" "	Threonine	
87.	" 5/16	SW-13	Sp7	Sp7 R (lysogenic) on lactose	
88.	" "	"	" "	"	
89.	" "	"	" "	"	
90.	" "	"	" "	"	
91.	" "	"	" "	"	
92.	" "	SW-75	U.V. plates	Maltose (-)	
93.	" "	"	" "	Maltose slow	
94.	" "	SW-84	" "	Mannitol slow	
95.	" "	"	" "	"	
96.	" "	"	" "	"	
97.	" 5/18	SW-50	U.V. PEN	Bl	
98.	" "	"	" "	"	
99.	" "	"	" "	"	
100.	" "	"	" "	"?	
101.	" 5/23	SW-92	U.V. plates	Mannitol (-)	
102.	" 6/6	SW-87	Autonomous lysis	on dextrose	
103.	" "	"	" "	"	
104.	" "	SW-2	Sp7	Sp7 R	
105.	" "	"	" "	"	
106.	" "	"	" "	"	
107.	" "	"	" "	"	
108.	" "	"	" "	"	
109.	" 6/9	SW-87	Autonomous	lysis on maltose	

Salmonella mutants

X = lost
 L = as mutant
 Preservation

SW	Source	Agent	Mutation	D. S. S.	Preservation
1.	S-20	U.V.	Histidine		
4.	"	"	Yeast extract	"	
5.	S-21	"	Yeast extract		A
6.	"	"	pab	weak response	
7.	"	"	Leucine, iso-leucine, valine		
8.	"	"	Tryptophane		L
9.	"	"	Xylose variable	spontaneous	
10.	SW-8	"	Arabinose -		
12.	SW-10	SP-6	SP-6R		
13.	SW-7	U.V.	Galactose -		L
14.	SW-1	U.V. Pen.	Leucine		X
15.	"	"	" replaceable by CM		
16.	SW-3	"	Proline		
17.	SY-23	"	Histidine		L
18.	"	"	Leucine		
19.	"	"	Methionine		
20.	"	"	Cystine or methionine		L
21.	"	"	"		
22.	"	"	Am-1		
23.	"	"	Am-5		
24.	SW-17	"	Lysine # methionine		
25.	"	"	Threonine		
26.	SW-18	"	Methionine		
27.	"	"	"		L
28.	"	"	Essential AA		
29.	"	"	Am-1		
30.	"	"	"		
31.	SW-19	"	Proline		
32. ✓	"	"	Leucine		L
33.	"	"	Proline		
34.	"	"	Histidine		L
35.	"	"	Cystine		
36.	Hershey, A.D.	S. typhimurium	Webster		X
37.	SW-17	U.V. Pen	Am-1		L
38.	SY-23	"	Phenylalanine # tyrosine		L
39.	"	"	Proline		
40.	"	"	Histidine		
41.	"	"	Methionine		
42.	SW-17	"	Proline		
43.	"	"	Methionine		
44.	SW-18	"	"		L
45.	"	"	"		
46.	SW-19	"	Proline		
47. ✓	"	"	"		X /
48.	"	"	Iso-leucine # valine		
49.	Rittenberg		S. cholerae-suis (requires B ₁)		
50.	"		S. poona		
51.	SW-25	U.V.	Maltose -		
52.	"	"	"		
53. ✓	"	"	"		X
54.	"	"	"		
55.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
56.	SW-50	U.V. Pen	Cystine		
57.	"	"	"	# methionine	
58.	"	"	Leucine		
59.	"	"	Uracil		
60.	"	"	Am-1		
61.	"	"	"		
62.	"	"	"		
63.	"	"	"		X
64.	"	"	"		
65.	"	"	"		
66.	"	"	"		
67.	SW-52	U.V.	Arabinose -		
68. ✓	"	"	"		✓.
69.	"	"	"		
70.	SW-31	"	Galactose -		
71.	"	"	"		
72.	"	"	"		
73.	SW-49	SP-49	SP-49R		L
74.	SW-50	?	Arginine		L
75.	SW-74	?	Xanthine		
76.	SW-36	Spontaneous	Thiamine		
77.	"	U.V. Pen	Cystine		L
78.	"	"	"	or serine	L
79.	"	"	"	"	
80.	"	"	2	or arginine	L
81. ✓	"	"	Leucine		✓.
82.	"	"	"		
83.	"	"	"		
84.	SW-58	"	Glutamic (proline)		
85.	"	"	Cystine		
86.	"	"	Threonine		
87.	SW-13	SP-7	SP-7 R (lysogenic)		L
88.	"	"	"		
89.	"	"	"		
90.	"	"	"		
91.	"	"	"		
92. ✓	SW-75	U.V. plates	Maltose -		✓.
93.	"	"	Maltose slow		
94.	SW-84	"	Mannitol slow		
95.	"	"	"		
96.	"	"	"		
97.	SW-50	U.V. Pen	Thiamine		L
98.	"	"	"		
99.	"	"	"		
100.	"	"	"		
101.	SW-92	U.V. plates	Mannitol -		
102.	SW-87	Autonomous	lysis on dextrose		L
103.	"	"	"		
104.	SW-2	SP-7	SP-7 R		L
105.	"	"	"		
106.	"	"	"		
107.	"	"	"		
108.	"	"	"		
109.	SW-87	Autonomous	lysis on maltose		L
110. ✓	SY-115	Purification	Prot. lac- Autonomous		✓.
111.	"	"	Histidine, lac #		L

SW	Source	Agent	Mutation	Details	Preservation
112.	SW-111	U.V. Pen	Thiamine		
113.	SW-110	"	Purines		L
114.	S.madellia	"	Pantothenate		L
115.	"	"	Am-2		
116.	"	"	Am-1		
117.	"	"	←Pantothenate		L.
118.✓✓	"	"	Histidine # glycine		L.
119.	"	"	Pantothenate		
120.	"	"	Methionine # lysine		L
121.	"	"	Vitamins		
122.	"	"	Pantothenate		
123.	"	"	Am-2		
124.	"	"	Pantothenate		
125.	"	"	Am-2		
126.	"	"	Yeast extract		
127.	"	"	Hydrolyzed casein		
128.	"	"	Pantothenate		
129.	"	"	"		
130.	"	"	Yeats extract		
131.	"	"	Am-2		
132.	"	"	Pantothenate		
133.	"	"	"		
134.✓	SW-113	"	Leucine		X
135.✓	SW-134	U.V. plates	Maltose -		L.
136.	"	"	"		
137.	SW-118	U.V. Pen	Am-3		L
138.	"	"	Am-2		
139.	SW-131	"	Cystine # iso-leucine #valine		L
140.	"	"	"		
141.✓	SW-114	"	Thiamine		
142.✓	SW-111	"	Leucine		X.
143.	SW-139	U.V. plates	Maltose -		L
144.	SW-141	#	Mannitol -		L
145.	SW-137	Purification	Smooth		
146.	SW-135	U.V. plates	Mannitol -		L
147.	SY-33	U.V. Pen	Purines		L
148.	"	"	HC		X
149.	"	"	Am-1		L
150.	SY-84	"	Vitamins		
151.	SW-148	"	Am-1		
152.	SW-149	"	Am-5		
153.	"	"	Am-3		
154.	"	"	Yeast extract		
155.	SW-78	SM	S ^r		L
156.	"	"	"		
157.	SW-81	Azide	Az ^r		L
158.	SW-111	reversion	Histidine #		L
159.	E.coli 134		Histidine-, lac #		L
160.	SY-28	U.V. Pen	Methionine		L
161.	"	"	Uracil		L
162.✓	E.coli X S.coli		prototroph		
163.✓	SW-160	U.V. Pen	Cystine		X.
164.	"	"	"		
165.	SW-161	"	Thiamine		
166.✓	"	"	"		X

SW	Source	Agency	Mutation	Details	Preservation
167.	LT-8 (43)	U.V. Pen	Yeast nucleic acid		X
168.	"	"	Cystine		L
✓ 169.	"	"	Phenylalanine		L
170.	SW-161	"	Isoleucine-valine		L
171.	"	"	Leucine		X
172.	"	"	Serine		L
173.	"	"	Proline		L
175.	LT-2 (85)	"	Proline		L
✓ 176.	272	"	Methionine		X lost
✓ 177.	"	"	Leucine		X tube OK
✓ 178.	"	"	Phenylalanine		L " "
✓ 179.	"	"	Histidine		X " "
✓ 180.	"	"	Cystine # methionine		X " "
✓ 181.	"	"	Cystine		X " "
182.	"	"	"		
183.	LT-7 (578)	"	Cystine or methionine		L
184.	"	"	Proline		L
185.	"	"	Cystine		L
✓ 186.	"	"	Cystine or methionine		L
187.	"	"	Am-1		
✓ 188.	"	"	Methionine		X
✓ 189.	"	"	Cystine		X
190.	"	"	Proline		L
191.	"	"	Leucine		L
192.	"	"	Glycine		L
193.	"	"	Histidine		L
194.	"	"	?		
195.	SW-163	U.V. plates	Maltose -		L
196.	"	"	"		
197.	LT-4 (125)	U.V. Pen	Cystine or methionine		L
198.	"	"	"		L
199.	"	"	Cystine		
200.	"	"	"		L
201.	"	"	Purines		L
✓ 202.	LT-1 (84)	"	Cystine <i>photostaphin</i> 5/14/53.		L
203.	"	"	"		L
204.	LT-3 (22)	"	"		L
205.	"	"	"		
206.	LT-5 (193)	"	"		L
207.	"	"	"		
208.	LT-6 (205)	"	"		L
209.	"	"	"		
210.	LT-9 (116)	"	"		L
211.	"	"	"		
212.	SW-171	U.V. plates	Sorbitol slow		
✓ 213.	LT-11 (72)	U.V. Pen	Uracil		L
214.	"	"	"		L
215.	LT-12 (111)	"	Phenylalanine		L
216.	"	"	Isoleucine-valine		L
217.	"	"	Leucine		L
218.	LT-10 (414)	"	Cystine		L
219.	"	"	"		
220.	LT-14 (135)	"	Phenylalanine		L
221.	"	"	"		
✓ 222.	LT-10	"	Lysogenic to LT-10		L
223.	"	"	"		

SW	Source	Agent	Mutation	Preservation	Preservation
224.	LT-14	U.V. Pen	Phenylalanine		L
225.	"	"	Leucine		L
226.	"	"	"		
227.	"	"	YNA XXXXXXXX		L
228.	LT-15 (297)	"	Phenylalanine		L
229.	"	"	"		L
230.	LT-13 (331)	"	Leucine		L
231. ✓	"	"	Purines		L
232.	LT-16 (9)	"	Phenylalanine		L
233.	"	"	"		
234.	LT-19 (30)	"	Isoleucine-valine		L
235.	LT-20 (428)	"	Phenylalanine		L
236.	"	"	"		
237.	LT-21 (192)	"	"		L
238.	"	"	Histidine		L
239. ✓	"	"	Isoleucine-valine		L.
240. ✓	LT-22 (409)	"	Phenylalanine # tyrosine		L.
241. ✓	"	"	Threonine		L.
242.	"	"	"		
243.	"	"	Pyrimidine		L
244.	"	"	"		
245. ✓	"	"	Purines		.
246. ✓	"	"	Cystine		L.
247.	"	"	"		
248.	"	"	Leucine		
249.	"	"	"		
250.	LT-3	"	Leucine # YNA		L
251.	LT-15 (297)	"	Leucine		
252.	LT-5	"	Histidine		L
253.	LT-1 (306)	"	Pantothenate		
254.	"	"	Cystine or methionine		L
255.	"	"	Cystine		L
256.	"	"	"	"	
257.	"	"	"	"	
258.	LT-19 (2)	"	Histidine		L
259.	"	"	Methionine		L
260. ✓	"	"	Cystine		L.
261.	LT-20	"	Cystine		L
262.	SW-238	"	"		L
263.	SW-237	"	Phenylalanine		L
264.	"	"	Cystine		L
265.	"	"	Am-3		L
266.	"	"	Tryptophane		
267.	"	"	Am-1		
268. ✓	SW-246	"	Am-2		L
269.	"	"	Proline		L
270.	"	"	Methionine		L
271.	"	"	"		
272. ✓	SW-261	"	"		L
273. ✓	SW-236	"	Histidine		L
274.	"	"	Proline		L
275.	"	"	Am-1		L
276.	"	"	"		
277.	"	"	"		
278.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
279.	SW-240	U.V. Pen	Tryptophane		L
280. ✓	"	"	"		L
281.	"	"	"		L
282.	"	"	"		L
283.	SW-251	"	←Purines or histidine ?		L
284.	SW-258	"	HC		L
285.	SW-260	"	Methionine		
286.	"	"	Leucine		
287.	LT-10	U.V. plates	LT-10/ LT-10		
288.	"	"	"		L
289.	"	"	"		
290.	SW-231	U.V. Pen	Isoleucine-valine		L
291.	"	"	"		L
292. ✓	SW-229	"	Tyrosine		L
293.	"	"	HC		L
294. ✓	SW-224	"	Am-5		L
295.	SW-225	"	"		L
296.	"	"	Am-4		L
297.	SW-272 X SW-279	Cross	Prototroph		
298.	"	"	"		
299.	SW-230	U.V. Pen.	Isoleucine-valine		L
300.✓	SW-184	"	Cystine		L
301.✓	"	"	Vitamins		L
302.✓	SW-168	"	Phenylalanine # tyrosine		L
303.✓	SW-217	"	Yeast extract		L
304.	SW-272	U.V. plates	Maltose -		L
305.	"	"	"		
306.	"	"	"		L
307.	SW-279	"	Galactose -		L
308.	"	"	"		L
309.	"	"	"		
310.	"	"	"		
311.	"	"	"		
312.✓	E.coli-134	Purification	Adenine		L
313.	LT-20	U.V. Pen	Am-3 triple		L
314.	LT-16	"	"		L
315.	"	"	"		
316.	"	"	"		
317.	LT-11	"	Yeast extract		L
318.	"	"	"		
319.	SW-241	"	Methionine		L
320.	"	"	"		
321.	"	"	Am-1		
322.	SW-243	"	Leucine		L
323.	"	"	Am-1		L
324.	SW-250	"	?		L
325.	SW-204	"	YNA		L
326.	SW-178	"	Yeast extract		
327.	SW-306	Azide	Az R		L
328.	"	"	"		
329.	"	"	"		
330.	SW-307	SM	S ^r		L
331.	"	"	"		
332.	"	#	"		

SW	Source	Agent	Mutation	Details	Preservation
333.	SW-306	SM	S ^r		
334.	"	"	"		L
335.	SW-307	Azide	Az ^r		
336.	"	"	"		L
337.	SW-191	U.V. Pen	Yeast extract		L
338.	"	"	"		
339.	"	"	Purines		L
340.	SW-253	"	Isoleucine-valine	<i>Put</i>	L
341.	#	"	YNA		L
342.	SW-254	"	Isoleucine-valine		L
343.	"	"	YNA		
344.	SW-197	"	Histidine		L
345.	SW-199	"	Vitamins		L
346.	"	"	Leucine		L
347.	SW-306	U.V. plates	Mannitol -		L
348.	"	"	"		
349.	SW-327	"	"		
350.	"	"	"		
351. <i>ab</i>	SW-307	"	Xylose -		L
352.	"	"	"		
353.	SW-330	"	"		
354.	"	"	"		L
355.	SW-272	"	Galactose -		L
356.	"	"	"		
357. <i>W</i>	SW-279	"	Maltose -		L
358.	"	"	"		
359.	SW-341	"	Galactose -		L
360.	"	"	"		
361.	SW-342	"	Maltose -		L
362.	"	"	"		
363.	SW-286	"	"		L
364.	"	"	"		
365.	SW-284	"	Galactose -		
366.	"	"	"		L
367.	SW-306.	U.V. Pen	Isoleucine-valine		L
368.	"	"	HC		L
369.	"	"	Yeast extract		
370.	"	"	Tryptophane		L
371.	"	"	HC		
372.	"	"	Am-2		L
373.	"	"	Tryptophane		L
374.	S. senftenberg	"	Leucine		L
375.	S. tm cop.	"	Am-2		L
376.	"	"	Am-1		L
377.	S. bonar.	"	Am-4		L
378. <i>W</i>	S. para B	"	Am-4		L
379.	"	"	Vitamins		L
380.	S. newport	"	"		L
381.	SW-169	"	Cystine		
382.	"	"	"		
383.	SW-240	"	YNA		L
384.	SW-351	"	Histidine		
385.	"	"	"		L
386.	SW-299	U.V. plates	Galactose -		
387.	"	"	"		

SW	Source	Agent	Mutation	Details	Preservation
388.	SW-213	U.V.Pen	Lysine		L
389.	SW-217	"	Am-3 triple		L
390.	"	"	"		
✓391.✓	SW-215	"	Serine or glycine		L
392.	SW-252	"	Lysine		L
393.	"	"	"		
394.	SW-179	"	HC		L
✓395.✓	LT-11	"	Uracil		L
396.	"	"	"		
397.	LT-9	"	Cystine #isoleucine-valine		L
398.	"	"	Cystine		
399.	"	"	"		
400.✓	LT-10	"	Purines		✓
401.	"	"	"		
✓402.✓	LT-16	"	Cystine		L
403.	"	"	Proline		L
404.	"	"	Phenylalanine#tyrosine		L
405.	"	"	"		
406.	SW-167	"	HC		L
407.	"	"	"		
408.	BT-230 (306)	"	Guanine		L
409.	SW-230	"	Purine		L
410.	LT-1 (306)	"	Cystine		L
✓411.✓	SW-410	"	Methionine		✓
✓412.✓	"	"	HC		✓
413.	"	"	Threonine		✓
414.✓	SW-176 272	"	Histidine		L
✓415.✓	"	"	"		L
416.	SW-175	"	HC		L
417.	"	"	Histidine		L
✓418.✓	SW-168	"	Tyrosine		L
419.	"	"	"		
✓420.✓	SW-406	"	Am-1		L
421.	"	"	"		
✓422.✓	SW-408	"	"		L
423.	"	"	"		
✓424.✓	SW-402	"	Purines		L
425.	SW-228	"	"		✓
✓426.✓	SW-216	"	Guanine		L
✓427.✓	LT-18 (100)	"	Leucine		L
✓428.✓	"	"	Cystine		L
429.	"	"	"		
✓430.✓	SW-427	"	Proline		L
✓431.✓	"	"	"		L
432.	SW-428	"	Am-2		✓
✓433.✓	SW-219	"	YNA		✓
434.	SW-252	"	Methionine # lysine		
✓435.✓	SW-351	SM (500u)	S ^r		L
✓436.✓	"	"	"		L
✓437.✓	SW-397	"	"		L
438.	"	"	"		