

SUPPLEMENTARY MATERIAL FOR:

Assays for the rapid and specific identification of North American *Yersinia pestis* and the common laboratory strain CO92

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Supplementary Table S1. DNAs Used to Validate SNP Assays

Isolate	Panel ^a	Species ^b	Branch ^c	State,Country	NA ^d	NA ^d Call	CO92	CO92 Call	Source Lab ^e
IP32934	WW	<i>Ypst</i>	-	France	no	-(G)	no	-(A)	IP
IP32949	WW	<i>Ypst</i>	-	France	no	-(G)	no	-(A)	IP
IP32951	WW	<i>Ypst</i>	-	France	no	-(G)	no	-(A)	IP
IP32953	WW	<i>Ypst</i>	-	France	no	-(G)	no	-(A)	IP
IP32790	WW	<i>Ypst</i>	-	Italy	no	-(G)	no	-(A)	IP
IP32817	WW	<i>Ypst</i>	-	Japan	no	-(G)	no	-(A)	IP
IP32889	WW	<i>Ypst</i>	-	Spain	no	-(G)	no	-(A)	IP
IP31830	WW	<i>Ypst</i>	-	UK	no	-(G)	no	-(A)	IP
IP31833	WW	<i>Ypst</i>	-	UK	no	-(G)	no	-(A)	IP
Pestoides A	WW	<i>Yp</i>	0.PE1	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides B	WW	<i>Yp</i>	0.PE1	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides C	WW	<i>Yp</i>	0.PE1	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides D	WW	<i>Yp</i>	0.PE1	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides E	WW	<i>Yp</i>	0.PE2	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides F	WW	<i>Yp</i>	0.PE2	USSR	no	-(G)	no	-(A)	USAMRIID
Pestoides G	WW	<i>Yp</i>	0.PE2	USSR	no	-(G)	no	-(A)	USAMRIID
Angola	WW	<i>Yp</i>	0.PE3	Angola	no	-(G)	no	-(A)	USAMRIID
IP516	WW	<i>Yp</i>	2.MED	Kurdistan	no	-(G)	no	-(A)	IP
Kim 10	WW	<i>Yp</i>	2.MED	Kurdistan	no	-(G)	no	-(A)	USAMRIID
Pestoides J	WW	<i>Yp</i>	2.MED	USSR	no	-(G)	no	-(A)	USAMRIID
PyH1R3	WW	<i>Yp</i>	2.MED	unknown	no	-(G)	no	-(A)	CDC
Harbin 35	WW	<i>Yp</i>	2.ANT	China	no	-(G)	no	-(A)	USAMRIID
Nicholisk 41	WW	<i>Yp</i>	2.ANT	China	no	-(G)	no	-(A)	USAMRIID
IP611	WW	<i>Yp</i>	2.ANT	Japan	no	-(G)	no	-(A)	IP
IP546	WW	<i>Yp</i>	2.ANT	Nepal	no	-(G)	no	-(A)	IP
Nepal 516	WW	<i>Yp</i>	2.ANT	Nepal	no	-(G)	no	-(A)	LLNL
IP541	WW	<i>Yp</i>	2.ANT	USSR	no	-(G)	no	-(A)	IP
Antiqua	WW	<i>Yp</i>	1.ANT	Congo	no	-(G)	no	-(A)	LLNL
IP537	WW	<i>Yp</i>	1.ANT	Kenya	no	-(G)	no	-(A)	IP

Benchmarks

Isolate	Panel ^a	Species ^b	Branch ^c	State, Country	NA ^d	NA ^d Call	CO92	CO92 Call	Source Lab ^e
IP677	WW	<i>Yp</i>	1.ANT	Kenya	no	- (G)	no	- (A)	IP
Nairobi	WW	<i>Yp</i>	1.ANT	Kenya	no	- (G)	no	- (A)	USAMRIID
La Paz	WW	<i>Yp</i>	1.ORI	Bolivia	no	- (G)	no	- (A)	USAMRIID
PexU2	WW	<i>Yp</i>	1.ORI	Brazil	no	- (G)	no	- (A)	CDC
IP567	WW	<i>Yp</i>	1.ORI	Brazil	no	- (G)	no	- (A)	IP
IP568	WW	<i>Yp</i>	1.ORI	Brazil	no	- (G)	no	- (A)	IP
IP612	WW	<i>Yp</i>	1.ORI	Burma	no	- (G)	no	- (A)	IP
CH97-1662	WW	<i>Yp</i>	1.ORI	China	no	- (G)	no	- (A)	CDC
Nich 51	WW	<i>Yp</i>	1.ORI	China	no	- (G)	no	- (A)	USAMRIID
IP695	WW	<i>Yp</i>	1.ORI	Germany	no	- (G)	no	- (A)	IP
IP696	WW	<i>Yp</i>	1.ORI	Germany	no	- (G)	no	- (A)	IP
195/P	WW	<i>Yp</i>	1.ORI	India	no	- (G)	no	- (A)	CDC
PB6	WW	<i>Yp</i>	1.ORI	India	no	- (G)	no	- (A)	CDC
Indian Isolate	WW	<i>Yp</i>	1.ORI	India	no	- (G)	no	- (A)	USAMRIID
Java 9	WW	<i>Yp</i>	1.ORI	Indonesia	no	- (G)	no	- (A)	USAMRIID
12/39	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
10/92	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
261/00S	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
31/93	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
4/99B-80	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
52/91	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	IP Madagascar
EV76	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	USAMRIID
Russian Vaccine	WW	<i>Yp</i>	1.ORI	Madagascar	no	- (G)	no	- (A)	USAMRIID
F361-66	WW	<i>Yp</i>	1.ORI	Nambia	no	- (G)	no	- (A)	CDC
IP523	WW	<i>Yp</i>	1.ORI	Senegal	no	- (G)	no	- (A)	IP
IP524	WW	<i>Yp</i>	1.ORI	Senegal	no	- (G)	no	- (A)	IP
IP1535	WW	<i>Yp</i>	1.ORI	South Africa	no	- (G)	no	- (A)	IP
IP521	WW	<i>Yp</i>	1.ORI	Turkey	no	- (G)	no	- (A)	IP
Stravopol	WW	<i>Yp</i>	1.ORI	USSR	no	- (G)	no	- (A)	USAMRIID
IP820	WW	<i>Yp</i>	1.ORI	Vietnam	no	- (G)	no	- (A)	IP
IP940	WW	<i>Yp</i>	1.ORI	Vietnam	no	- (G)	no	- (A)	IP
75-1833 F	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
77NAV651F	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
77NAV652A	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
77NAV652B	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
77NAV654	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
AZ83-0208	WW	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
AZ88-5040	WW	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
AZ92-1347	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
AZ92-1384-337	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC

Isolate	Panel ^a	Species ^b	Branch ^c	State, Country	NA ^d	NA ^d Call	CO92	CO92 Call	Source Lab ^e
AZ92-1387	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
IJ84-1188-754	CO92	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	CDC
FV-1	WW	<i>Yp</i>	1.ORI	AZ, USA	yes	+ (A)	no	- (A)	NAU
A1122	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDC
88A4125	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDHS
90A4021	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDHS
92A4261	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDHS
94A4772	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDHS
97A7970	WW	<i>Yp</i>	1.ORI	CA, USA	yes	+ (A)	no	- (A)	CDHS
CO96-2369	WW	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	no	- (A)	CDC
CO96-2596-593	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	no	- (A)	CDC
242	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	no	- (A)	USAMRIID
South Park	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	no	- (A)	USAMRIID
ID97-1336	WW	<i>Yp</i>	1.ORI	ID, USA	yes	+ (A)	no	- (A)	CDC
KS97-2097-357 mp	WW	<i>Yp</i>	1.ORI	KS, USA	yes	+ (A)	no	- (A)	CDC
MT874899 mp	WW	<i>Yp</i>	1.ORI	MT, USA	yes	+ (A)	no	- (A)	CDC
ND864487-680 mp	WW	<i>Yp</i>	1.ORI	ND, USA	yes	+ (A)	no	- (A)	CDC
NM84-0082	CO92	<i>Yp</i>	1.ORI	NM, USA	yes	+ (A)	no	- (A)	CDC
9808723	WW	<i>Yp</i>	1.ORI	NM, USA	yes	+ (A)	no	- (A)	NMDH
9808730	WW	<i>Yp</i>	1.ORI	NM, USA	yes	+ (A)	no	- (A)	NMDH
80WE278	WW	<i>Yp</i>	1.ORI	NV, USA	yes	+ (A)	no	- (A)	CDC
OR820328	WW	<i>Yp</i>	1.ORI	OR, USA	yes	+ (A)	no	- (A)	CDC
BE4-977	WW	<i>Yp</i>	1.ORI	TX, USA	yes	+ (A)	no	- (A)	TDSHS
UT00-3398-626 mp	WW	<i>Yp</i>	1.ORI	UT, USA	yes	+ (A)	no	- (A)	CDC
WA84-0056	WW	<i>Yp</i>	1.ORI	WA, USA	yes	+ (A)	no	- (A)	CDC
80WE249	WW	<i>Yp</i>	1.ORI	WY, USA	yes	+ (A)	no	- (A)	CDC
CO92	WW, CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1097 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1098 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1099 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1100 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1101 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1102 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1103 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1104 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1106 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1107 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1108 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID

Benchmarks

Isolate	Panel ^a	Species ^b	Branch ^c	State, Country	NA ^d	NA ^d Call	CO92	CO92 Call	Source Lab ^e
CO92 #1109 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 #1110 ^f	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	USAMRIID
CO92 lcr-	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	LLNL
CO92 lcr+	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	LLNL
CO99-3015 ^g	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	CDC
CO99-3016 ^h	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	CDC
CO99-3015mp ^g	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	CDC
CO99-3016mp ^h	CO92	<i>Yp</i>	1.ORI	CO, USA	yes	+ (A)	yes	+ (C)	CDC

^aRefers to the panel of DNAs an isolate was included in: either a worldwide (WW) diversity panel, or a CO92 panel consisting of CO92 isolates and CO92 genetic near neighbors

^b*Yp*: *Y. pestis*; *Ypst*: *Y. pseudotuberculosis*

^cIndicates the molecular group for the isolates as defined by 7

^dNA: North America

^eIP: Institut Pasteur; USAMRIID: U.S. Army Medical Research Institute of Infectious Diseases; LLNL: Lawrence Livermore National Laboratory; CDC: Centers for Disease Control and Prevention; IP Madagascar: Institut Pasteur de Madagascar; TDSHS: Texas Department of State Health Services; NMDH: New Mexico Department of Health; NAU: Northern Arizona University; CDHS: California Department of Health Services

^fCO92 derivatives previously described by 22

^{g,h}Indicates two sets of paired isolates consisting of the original isolate and the isolate after a mouse passage (mp)