

**Table S1** Background information and MIC data to pleuromutilins of the 35 Hungarian *M. bovis* isolates included in the present study

Sample ID	Origin of herd	Date	Sample source	MIC values ( $\mu\text{g/ml}$ )	
				Pleuromutilins	
				Tiamulin	Valnemulin
PG45	Connecticut	1961	lung	0.078	$\leq 0.039$
MYC2	Püspökhátvan	2011	lung	0.156	$\leq 0.039$
MYC22	Sümege	2012	lung	0.312	$\leq 0.039$
MYC30	Bugyi	2012	lung	0.156	$\leq 0.039$
MYC42	Nemti	2012	lung	0.156	$\leq 0.039$
MYC43	Zsana	2012	lung	0.312	$\leq 0.039$
MYC44	Györszentiván	2012	lung	0.312	$\leq 0.039$
MYC45	Budapest	2012	lung	0.312	$\leq 0.039$
MYC46	Budapest	2012	lung	0.625	$\leq 0.039$
MYC47	Dabas	2012	lung	0.312	$\leq 0.039$
MYC48	Ősi	2012	nasal swab	0.312	$\leq 0.039$
MYC49	Ősi	2012	nasal swab	0.312	$\leq 0.039$
MYC50	Ősi	2012	lung	0.312	$\leq 0.039$
MYC51	Ősi	2012	nasal swab	0.156	$\leq 0.039$
MYC52	Solt	2012	lung	0.078	$\leq 0.039$
MYC53	Solt	2012	lung	0.156	$\leq 0.039$
MYC65	Csengersima	2012	nasal swab	0.039	$\leq 0.039$
MYC66	Csengersima	2012	nasal swab	0.156	$\leq 0.039$
MYC67	Csengersima	2012	lung	0.625	$\leq 0.039$
MYC68	Csengersima	2012	lung	0.039	$\leq 0.039$
MYC69	Komárom	2013	nasal swab	0.156	$\leq 0.039$
MYC70	Komárom	2013	nasal swab	0.156	$\leq 0.039$
MYC71	Komárom	2013	nasal swab	0.078	$\leq 0.039$
MYC72	Komárom	2013	nasal swab	0.078	$\leq 0.039$
MYC73	Komárom	2013	nasal swab	0.078	$\leq 0.039$
MYC74	Komárom	2013	nasal swab	0.156	$\leq 0.039$
MYC75	Komárom	2013	nasal swab	0.156	$\leq 0.039$
MYC76	Komárom	2013	nasal swab	0.312	$\leq 0.039$
MYC77	Kertészsziget	2010	lung	0.312	$\leq 0.039$
MYC78	Hosszúpályi	2011	lung	0.312	$\leq 0.039$
MYC79	Hosszúpályi	2011	lung	0.312	$\leq 0.039$
MYC80	Ebes	2011	lymph node	0.312	$\leq 0.039$
MYC81	Felsőnyárad	2013	lung	0.312	$\leq 0.039$
MYC82	Felsőnyárad	2013	nasal swab	0.156	$\leq 0.039$
MYC83	Alsótold	2013	lung	0.156	$\leq 0.039$
MYC84	Felsőnyárad	2013	nasal swab	0.156	$\leq 0.039$

**Table S2** Susceptibility to the 12 examined antibiotics of *M. bovis* strains before and after selection

Drug used for selection	Strain	Initial MIC (µg/ml)	No. of passages	MIC values (µg/ml)													
				Fluoroquinolones			Aminocyclitols		Tetracyclines		Macrolides		Phenicol	Lincosamide		Pleuromutilins	
				Danofloxacin	Enrofloxacin	Marbofloxacin	Spectinomycin	Oxytetracycline	Tetracycline	Tilmicosin	Tylosin	Florfenicol	Lincomycin	Tiamulin	Valnemulin		
Danofloxacin	MYC52	0.156	10	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	4	1	0.078	≤0.039		
	MYC53	0.156	9	>10	>10	>10	4	1	≤0.25	≤0.5	≤0.5	4	≤0.25	0.039	≤0.039		
	PG45	0.156	7	>10	>10	>10	4	2	0.5	≤0.5	≤0.5	4	0.5	0.078	≤0.039		
Enrofloxacin	MYC52	0.156	4	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	4	1	0.078	≤0.039		
	MYC53	0.156	8	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	4	1	0.078	≤0.039		
	PG45	0.156	6	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	2	0.5	0.039	≤0.039		
Marbofloxacin	MYC52	0.312	5	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	4	1	0.156	≤0.039		
	MYC53	0.625	5	>10	>10	>10	8	2	0.5	≤0.5	≤0.5	4	1	0.078	≤0.039		
	PG45	0.625	7	>10	>10	>10	8	4	0.5	≤0.5	≤0.5	2	0.5	0.039	≤0.039		
Spectinomycin	MYC52	4	2	0.156	0.156	0.625	>256	4	1	≤0.5	≤0.5	4	0.5	0.156	≤0.039		
	MYC53	4	2	0.156	0.156	0.625	>256	4	1	≤0.5	≤0.5	4	1	0.156	≤0.039		
	PG45	4	3	0.156	0.156	0.312	>256	4	1	≤0.5	≤0.5	2	0.5	0.039	≤0.039		
Oxytetracycline	MYC52	2	9	0.156	0.156	0.625	8	>64	>64	≤0.5	≤0.5	2	≤0.25	≤0.039	≤0.039		
	MYC53	2	10	0.156	0.156	0.625	8	>64	>64	≤0.5	≤0.5	2	≤0.25	0.039	≤0.039		
	PG45	2	15	0.312	0.312	0.625	8	32	8	1	≤0.5	4	1	0.078	≤0.039		
Tetracycline	MYC52	≤0.25	13	0.156	0.156	0.312	16	>64	>64	≤0.5	≤0.5	4	1	0.156	≤0.039		
	MYC53	≤0.25	13	0.156	0.156	0.625	16	>64	>64	≤0.5	≤0.5	2	0.5	0.039	≤0.039		
	PG45	≤0.25	18	0.156	0.156	0.625	16	>64	32	≤0.5	≤0.5	4	1	0.078	≤0.039		
Tilmicosin	MYC52	≤0.5	5	0.156	0.156	0.625	4	2	0.5	>128	>128	8	>64	0.625	≤0.039		
	MYC53	≤0.5	2	0.156	0.156	0.625	8	2	0.5	>128	>128	8	>64	1.25	≤0.039		
	PG45	≤0.5	3	0.156	0.156	0.625	8	4	1	>128	64	8	1	0.078	≤0.039		
Tylosin	MYC52	≤0.5	6	0.156	0.156	0.625	4	2	0.5	>128	>128	4	1	0.312	≤0.039		
	MYC53	≤0.5	3	0.156	0.156	0.625	8	2	0.5	>128	>128	>32	2	0.312	≤0.039		
	PG45	≤0.5	6	0.156	0.156	0.625	4	4	1	64	>128	>32	1	0.156	≤0.039		
Lincomycin	MYC52	≤0.5	4	0.156	0.156	0.312	4	2	≤0.25	>128	>128	8	>64	1.25	≤0.039		
	MYC53	1	2	0.156	0.156	0.625	8	2	0.5	>128	>128	8	>64	5	0.039		
	PG45	1	5	0.156	0.156	0.312	4	2	0.5	>128	16	4	16	0.625	≤0.039		
Florfenicol	MYC52	4	2	0.156	0.156	0.312	4	1	≤0.25	8	2	>32	8	>10	>10		
	MYC53	4	2	0.156	0.156	0.312	4	1	≤0.25	8	4	>32	8	0.625	0.039		
	PG45	4	5	0.156	0.312	0.625	4	4	≤0.25	16	>128	>32	2	0.156	≤0.039		
Tiamulin	MYC52	0.078	2	0.156	0.156	0.625	4	2	≤0.25	1	≤0.5	>32	4	>10	>10		
	MYC53	0.156	2	0.156	0.156	0.312	4	1	≤0.25	1	1	>32	4	>10	0.156		
	PG45	0.078	3	0.156	0.156	0.625	4	4	≤0.25	32	1	>32	16	>10	>10		
Valnemulin	MYC52	≤0.039	14	0.156	0.312	0.625	8	4	1	4	8	>32	1	>10	0.078		
	MYC53	≤0.039	10	0.156	0.156	0.625	8	1	≤0.25	>128	>128	16	>64	>10	>10		
	PG45	≤0.039	3	0.156	0.156	0.625	4	2	0.5	64	≤0.5	>32	16	>10	>10		