Table S1. Compounds from LOPAC library that inhibited the growth of M. maripaludis^a

Structure	Mol Weight	Molecular Name
NH OH OH	173.17	(+-)-cis-Piperidine-2,3- dicarboxylic acid
H ₃ C OH	320.42	(R,R)-cis-Diethyl tetrahydro-2,8-chrysenediol
S NH ₂ NH S NH ₂ • 2HBr NH	444.25	1,3-PBIT Dihydrobromide
	156.18	2,2'-Bipyridyl
0 N N N N O	206.63	3-Morpholinosydnonimine hydrochloride
OSC Br NH HN OH	481.47	Bromoacetyl alprenolol methane
H ₃ C	542.65	Calcimycin
	687.70	Calmidazolium chloride
N± O-	383.82	Chelerythrine chloride
H ₃ C CH ₃ CH	1202.61	Cyclosporin A

766 59 Degualinium analog			
Z. Z	766.58	Dequalinium analog	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	527.57	Dequalinium dichloride	
CI ⁻	314.55	Diphenyleneiodonium chloride	
HO CH ₃ (CH ₂) ₁₃ CH ₂ OH NH ₂	301.51	DL-erythro-Dihydrosphingosine	
CH ₃	246.31	Ellipticine	
F O N	475.57	Fluspirilene	
O_2N CF_3 CH_3 CH_3	276.21	Flutamide	
HO ON N H NO2	311.29	Icilin	
O OH OH OH OH NH2	533.95	Idarubicin	
F F N N N N N N N N N N N N N N N N N N	317.22	Nilutamide	
0 H ₃ C, CH ₃ 1 -	322.19	Oxotremorine	
HO HO OH CN	450.49	PD 168,077 maleate	

	461.55	Pimozide
	263.34	Pinacidil
N≡C N CH ₃ HN N t-Bu H ₂ O		
· H ₂ O		
СМ . но . н	414.41	Piribedil maleate
н н н		
O _H	418.52	Pregnenolone sulfate sodium
CH ₃ C - CH ₃		
CH ₃		
NaO ₃ SO		
CH ₃	272.77	Procaine hydrochloride
H ₂ N • HCl		
· HCI CH ₃ CH ₃	320.88	Promazine hydrochloride
CT _s T)		
O ₂ N H OH	374.35	Quipazine,6-nitro maleate
F ₃ C	345.79	S-(+) Fluoxetine hydrochloride
•HCI NHCH ₃		
	000.40	
$H_3C(H_2C)_{12}$ $ \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \qquad \downarrow \qquad \qquad$	299.49	Sphingosine
F	477.57	Ritanserin
H ₉ C N s		
$\prec \supset$	603.75	Salmeterol
но		
ОН		
H ₃ C Ci ⁻	367.78	Sanguinarine chloride
6		
	255.79	Ro 41-1049 hydrichloride / (-)-
HN H' H		Quinpirole hydrochloride
· HCI CH₃		

to was a second of the second	264.32	SU 4312; 3-(4- Dimethylaminobenzylidenyl)-2- indolinone
H ₉ C	563.64	Tamoxifen citrate Tamoxifen
	371.51	
H N N N N N N N N N N N N N N N N N N N	292.13	UK 14,304 /5-Bromo-N-(2- imidazolin-2-yl)-6- quinoxalinamine
2 HO OH	613.68	SKF95282/N-[3-[3-(1-Pip-eridinylmethyl) phenoxy]propyl] 2benzothiazolamine
OCH ₃ N-CH ₂ CH ₂ CH ₂ NH-N-O H ₃ CO-N-CH ₃	401.50	Urapidil,-5-Methyl
NH ₂	129.16	(±)-Vigabatrin
V—CO₂H		

^aThe LOPAC library (1280 compounds) was screened at a final concentration of 20 μM in a 96-well microtiter plate format. Plates were incubated for 5 days at 37° C and the OD₆₀₀ recorded on a plate reader. Forty-one compounds inhibited the final growth yield (OD₆₀₀) by > 90% compared to the DSMO (1%)-treated control were identified as inhibitors. The screen was characterised by an average Z-factor of 0.67.

TABLE S2. Natural products that inhibited the growth of *M. maripaludis*^a

Structure	Mol Weight	Name
OMe OH OME OME OH	563.98	Daunorubicin hydrochloride
Me NH	242.24	Riboflavin lumichrome
H ₂ C O OH	410.47	Mangostin
CH ₃	246.31	Ellipticine
OCH ₃	341.28	Aristolochic acid
HO 2C OH CHO	398.46	Norlobaric acid
HO HO HO H	747.96	Nigericin sodium salt
NH HN	1111.34	Valinomycin
	1112.37	Didemnin B

OH .ome	914.19	Rapamycin
		i tapamyom
OH OH		
HO OMe		
	1255.44	Actinomycin D
ON HN OO HN		
HN O O NH O		
Yo Yo		
	590.80	Lasalocid acid
, , , , , , , , , , , , , , , , , , ,		
M		
9 77 04 04	1336.49	Tetrocarcin A
O HO H, H H O O O		
OH ON		
NH ÖH		
о́н		
ON Me	816.95	Michellamine B
HO 36e OH Citie		diacetic acid salt
Cidde CNI Me		
Note that the second se		
Me ON		
HN-5	1648.85	SIOMYCIN A
10 CH3 1 NO CH3		
H,C OH		
N- W-S		
он он о	546.53	Chaetochromin
	540.53	Chaetochromin
HOOOO		
о он он		
	1101.27	Echinomycin A
0 OH OH	1101.27	Echinomycin A
OH OH	1101.27	Echinomycin A
OH OH OH OH OH OH OH OH OH OH OH	1101.27	Echinomycin A

 $[^]a$ The natural product in house library (120 compounds) was screened at a final concentration of 20 μ M in a 96-well microtiter plate format . Plates were incubated for 5 days at 37 $^\circ$ C, and the OD₆₀₀ was

recorded on a plate reader. All compounds that reduced the growth yield by > 90% compared to the DSMO (1%)-treated control were considered inhibitory. The screen was characterised by an average Z-factor of 0.78.