microorganisms

MDPI

SUPPLEMENTARY MATERIAL

List of Contents

Table S1. Dereplicated metabolites from LC-HRESIMS analysis of ***Micromonospora sp.*** **UA17**

No.	Metabolite Name	Original Source	MF	Rt (min.)	MW	MS (*m*/*z*)
1	Atramycin A	*Streptomyces atratus*	$C_{25}H_{24}O_9$	8.28	468.141492	467.1350021
2	Atramycin B	*Streptomyces atratus*	$C_{25}H_{24}O_8$	9.68	452.146577	451.1401825
3	TAN-1030A	*Streptomyces longisporoflavus R-19*	$C_{27}H_{22}N_4O_4$	12.87	466.163565	465.1557922
4	Fujianmycin A	*Streptomyces* sp. GW71/2497	$C_{19}H_{14}O_5$	13.71	322.083584	323.091309
5	Mutactimycin C	*Streptomyces* sp. 1254	$C_{27}H_{30}O_{11}$	13.91	530.178272	529.171692
6	Mutactimycin A	*Streptomyces* sp. 1254	$C_{28}H_{32}O_{11}$	16.21	544.193922	543.187439
7	7-Oxostaurosporine	*Streptomyces platensis subsp.*	$C_{28}H_{24}N_4O_4$	20.62	480.179215	479.171387

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

Table S2. Dereplicated metabolites from LC-HRESIMS analysis of ***Gordonia sp.*** **UA19**

No.	Metabolite Name	Original Source	MF	Rt	MW	MS (*m*/*z*)
8	Pimprinine	*Streptomyces pimprina*	$C_{12}H_{10}N_2O$	5.94	198.078773	199.0866394
9	Cladoniamide C	*Streptomyces uncialis*	$C_{22}H_{17}N_3O_5$	17.91	403.116281	404.123993

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

Table S3. Dereplicated metabolites from LC-HRESIMS analysis of ***Nocardia sp.*** **UA 23**

No.	Metabolite Name	Original Source	MF	Rt	MW	MS (*m*/*z*)
10	Gabosine-B	*Streptomyces albus*	$C_7H_{12}O_4$	1.27	160.073019	161.08075
11	Lavendamycin	*Streptomyces lavendulae* C-22030 S	$C_{22}H_{14}N_4O_4$	1.40	398.100965	397.093338
12	2-chloroadenosine	*Streptomyces rishiriensis 265, Sp-265 (FERM-p 5921)*	$C_{10}H_{12}ClN_5O_4$	1.51	301.057242	300.049118
13	Malioxamycin	*Streptomyces lydicus*	$C_9H_{16}N_2O_6$	1.59	248.100296	249.107941
14	Enkastine I	*Streptomyces albus ATCC 21838*	$C_{16}H_{28}N_2O_{10}$	2.10	408.173855	407.167511
15	Chicamycin A	*Streptomyces albus*	$C_{14}H_{18}N_2O_5$	4.75	294.121031	293.1146317
16	RK-1441B	*Streptomyces griseus*	$C_{13}H_{14}N_2O_5$	6.01	278.089731	279.0975189
17	Ketalin	*Streptomyces lavendulae Tue 1668*	$C_{11}H_{20}O_4$	12.51	216.135619	215.1289215
18	Copiamycin	*Streptomyces hygroscopicus var. crystallogenes*	$C_{54}H_{95}N_3O_{17}$	31.11	1057.66560	1058.672668

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

Table S4. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + UA19**

No.	Metabolite Name	Original Source	MF	Rt	MW	MS (*m*/*z*)
19	MY 336a	*Streptomyces gabonae*	$C_{13}H_{19}NO_4$	13.94	253.130868	252.124252
20	Chlorocardicin	*Streptomyces spp.*	$C_{23}H_{23}ClN_4O_9$	15.89	534.114816	533.1067098
21	WS 5995-A	*Streptomyces auranticolor* 5995 (FERM-p 5365)	$C_{19}H_{12}O_6$	19.49	336.062848	335.056519
22	Neocopiamycin A	*Streptomyces hygroscopicus var. crystallogenes*	$C_{53}H_{93}N_3O_{17}$	30.30	1043.64995	1044.656982

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

Table S5. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + UA23**

No.	Metabolite Name	Original Source	MF	Rt	MW	MS (*m*/*z*)
23	LL-BH-872α	*Streptomyces hinnulinus*	$C_{10}H_{18}N_2O_3$	3.14	214.131202	215.1390686
24	DC 81	*Streptomyces roseiscleroticus do-81 (FERM-p 6502)*	$C_{13}H_{14}N_2O_3$	3.38	246.099902	247.1076736
25	Eserine	*Streptomyces griseofuscus*	$C_{15}H_{21}N_3O_2$	3.72	275.162837	276.170578
26	13-Hydroxy-streptazolin	*Streptomyces sp. A1*	$C_{11}H_{13}NO_4$	3.85	223.083918	224.0916748
27	A 58365B	*Streptomyces chromofuscus*	$C_{13}H_{15}NO_6$	4.11	281.089397	280.082809
28	Chicamycin B	*Streptomyces albus*	$C_{13}H_{14}N_2O_4$	4.18	262.094817	261.0881348
29	Libramycin-A	*Streptomyces sp.*	$C_{11}H_{20}N_2O_3$	5.03	228.146852	229.1546555
30	Belactosin C	*Streptomyces sp. KY11780*	$C_{16}H_{27}N_3O_6$	5.98	357.189445	356.183197
31	Dehydrodioxolide B	*Streptomyces tendae*	$C_{11}H_{11}NO_5$	6.14	237.063182	236.0565987

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

Table S6. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + mycolic acid**

No.	Metabolite Name	Original Source	MF	Rt	MW	MS (*m*/*z*)
32	Pimprinethine	*Streptoverticillium olivoreticuli*	$C_{13}H_{12}N_2O$	3.22	212.094423	213.102264
33	Maculosin	*Streptomyces rochei 87051-3*	$C_{14}H_{16}N_2O_3$	3.75	260.115552	259.1089478
34	3-Hydroxyquinoline-2-carboxylic acid	Actinomycete *Streptomyces cyaneofuscatus* M-157	$C_{10}H_7NO_3$	4.01	189.042053	190.049843
35	Prothracarcin	*Streptomyces umbrosus*	$C_{14}H_{14}N_2O$	4.31	226.110073	227.1178055
36	N-Acetyl-3,4-dihydroxy-L-phenylalanine	*Streptomyces akiyoshiensis ATCC13480 L127 mutans*	$C_{11}H_{13}NO_5$	5.15	239.078832	238.0722198
37	Tomaymycin	*Streptomyces achromogenes-tomaymyceticus*	$C_{16}H_{20}N_2O_4$	5.61	304.141767	303.1353149
38	Cystocin	*Streptomyces sp. GCA0001*	$C_{16}H_{25}N_7O_4S$	9.09	411.168333	410.1608276
39	Deoxycephamycin B	*Streptomyces olivaceus SANK 60384 (NRRL 3851)*	$C_{25}H_{29}N_3O_{10}S$	15.32	563.156825	564.1655884

MF: molecular formula, Rt: retention time, *m*/*z*: mass-to-charge ratio, min: minute

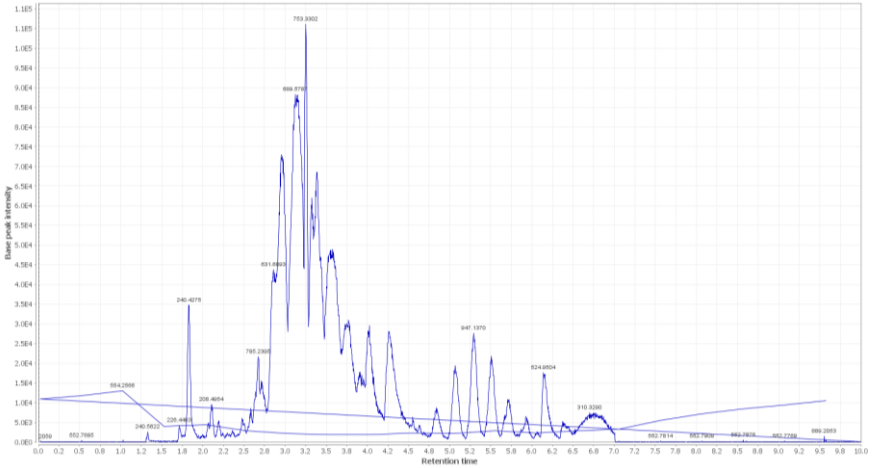


Figure S1a. LC-HRESIMS Chromatogram of the dereplicated metabolites of *Micromonospora sp.* UA17

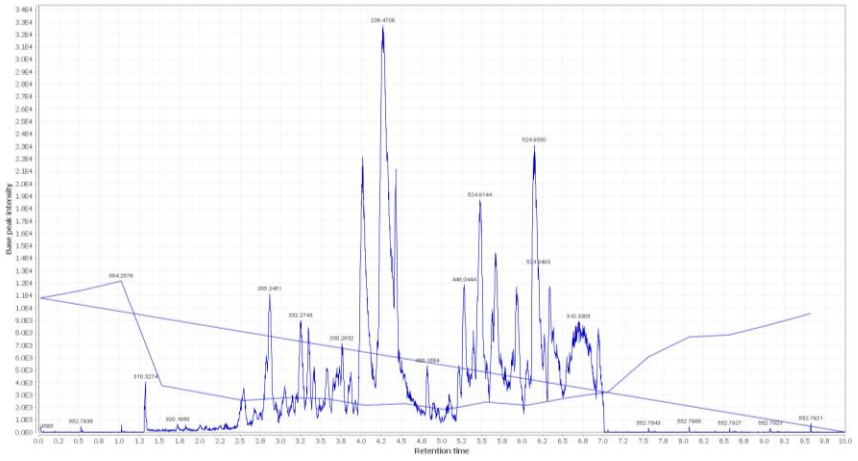


Figure S2a. LC-HRESIMS Chromatogram of the dereplicated metabolites of *Gordonia sp.* UA19

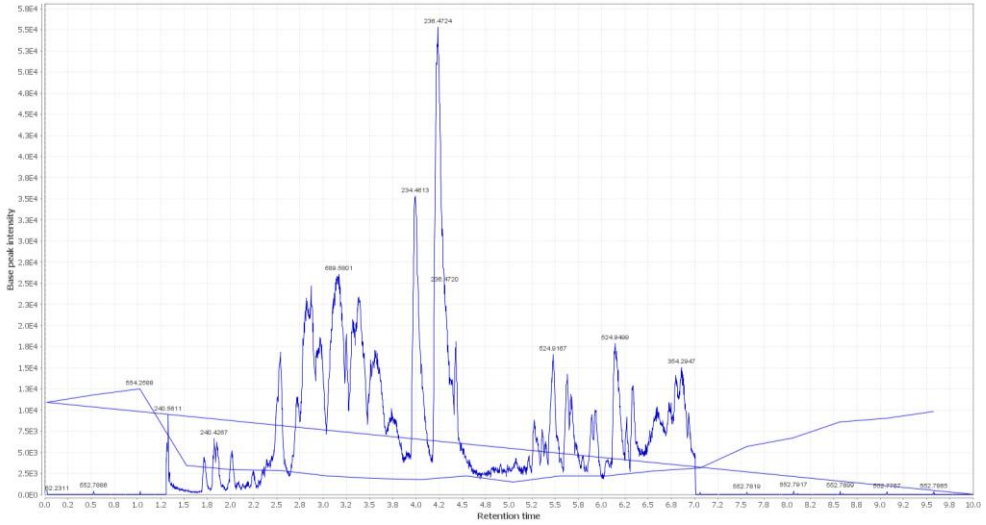


Figure S3a. LC-HRESIMS Chromatogram of the dereplicated metabolites of *Nocardia sp.* UA 23

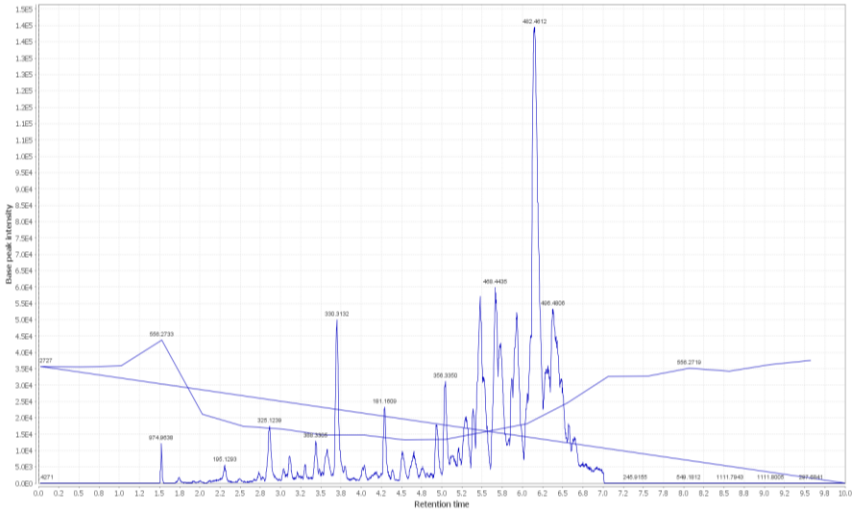


Figure S4a. LC-HRESIMS Chromatogram of the dereplicated metabolites of UA17 + UA19

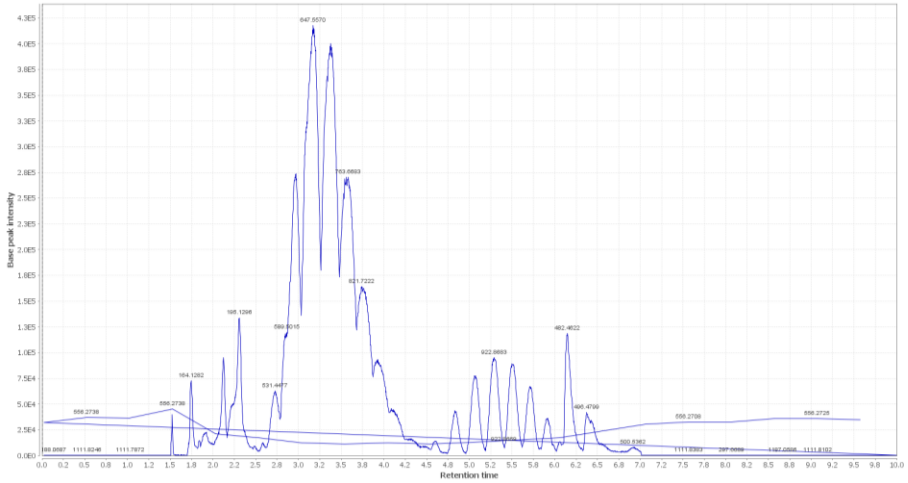


Figure S5a. LC-HRESIMS Chromatogram of the dereplicated metabolites of UA17 + UA23

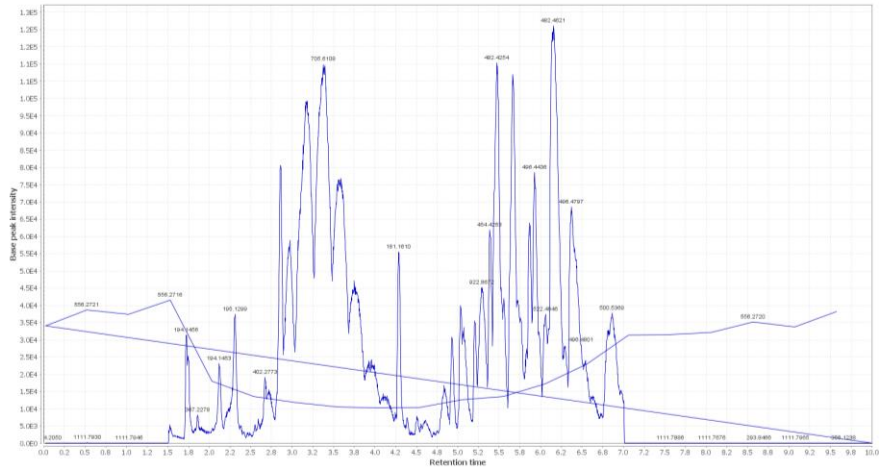


Figure S6a. LC-HRESIMS Chromatogram of the dereplicated metabolites of UA17 + mycolic acid

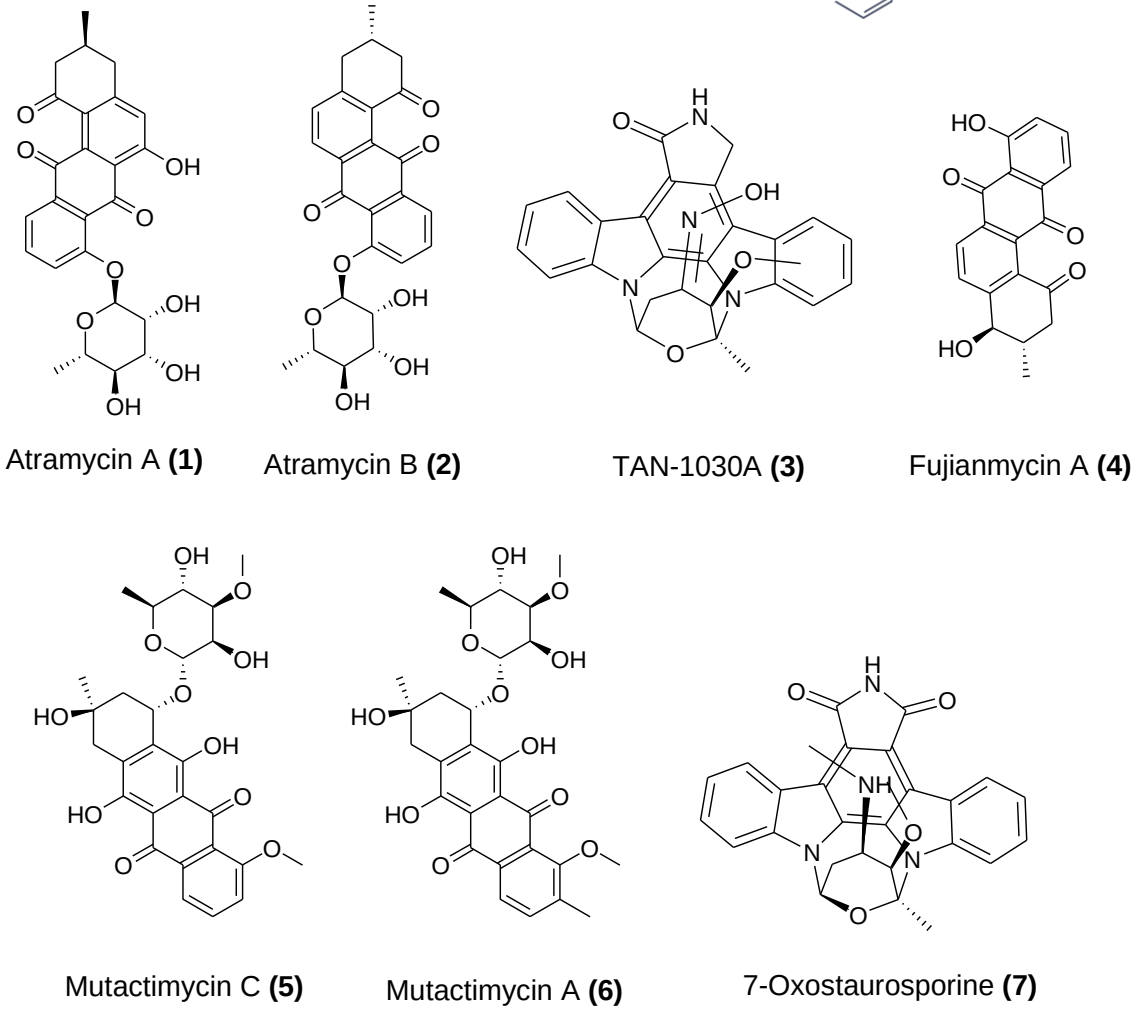
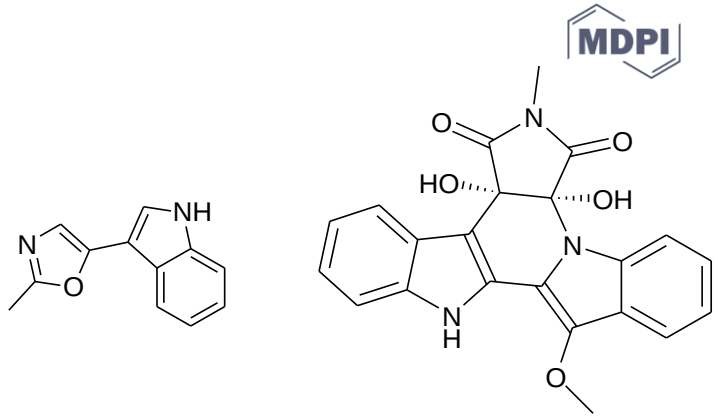


Figure S1b. Dereplicated metabolites from LC-HRESIMS analysis of ***Micromonospora*** **sp. UA17**



Pimprinine **(8)** Cladoniamide C (**9**)

Figure S2b. Dereplicated metabolites from LC-HRESIMS analysis of ***Gordonia sp.*** **UA19**

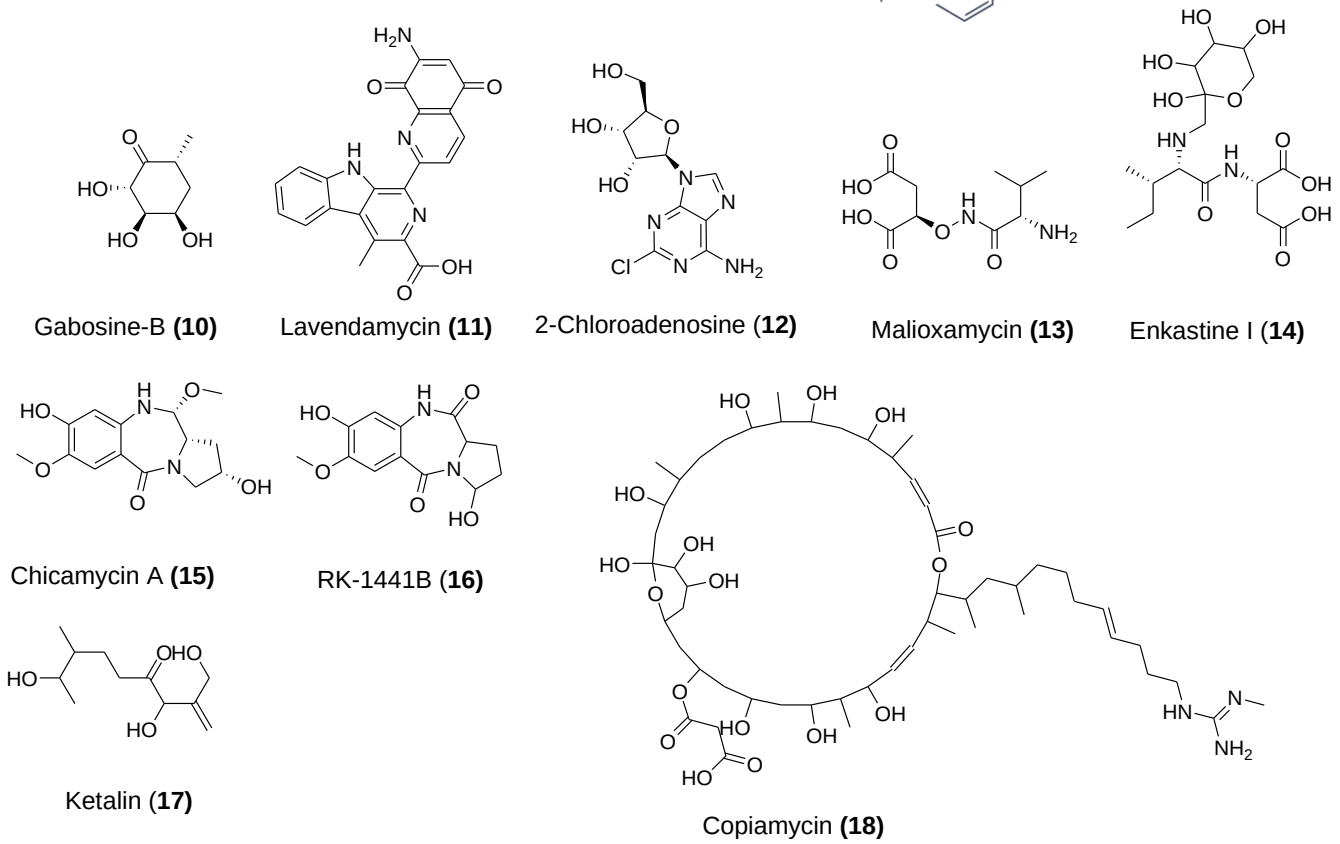


Figure S3b. Dereplicated metabolites from LC-HRESIMS analysis of ***Nocardia sp.*** **UA 23**

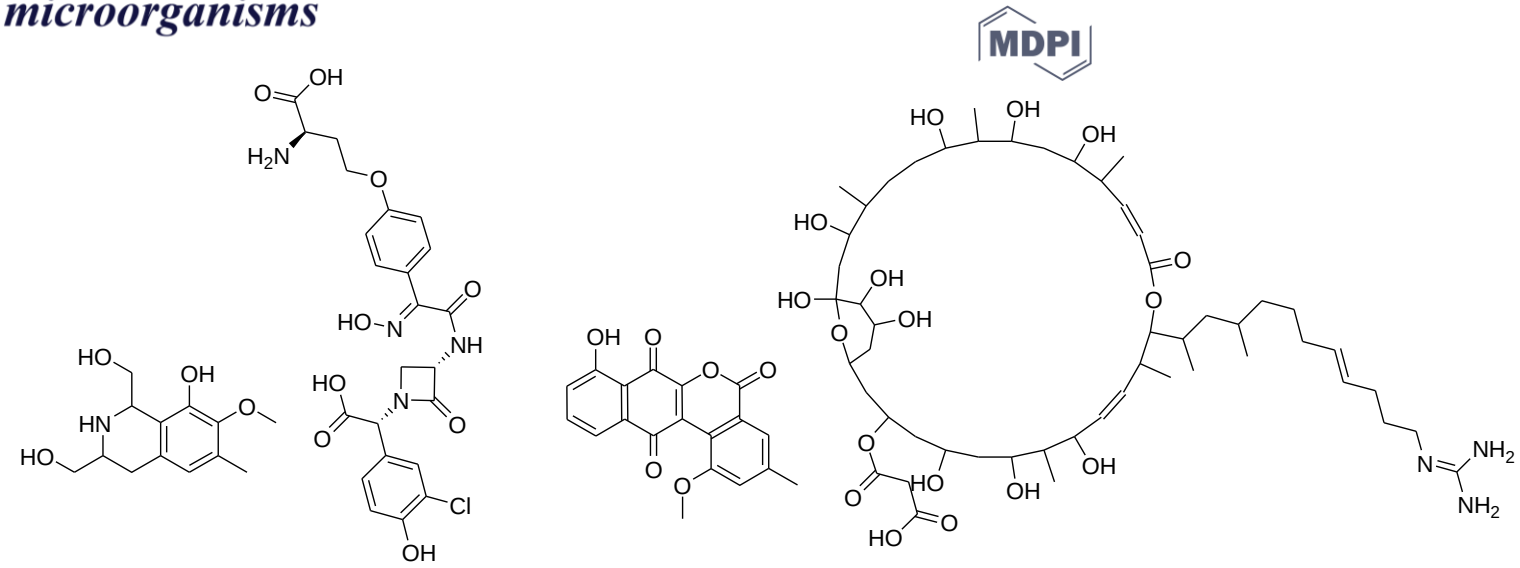


Figure S4b. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + UA19**

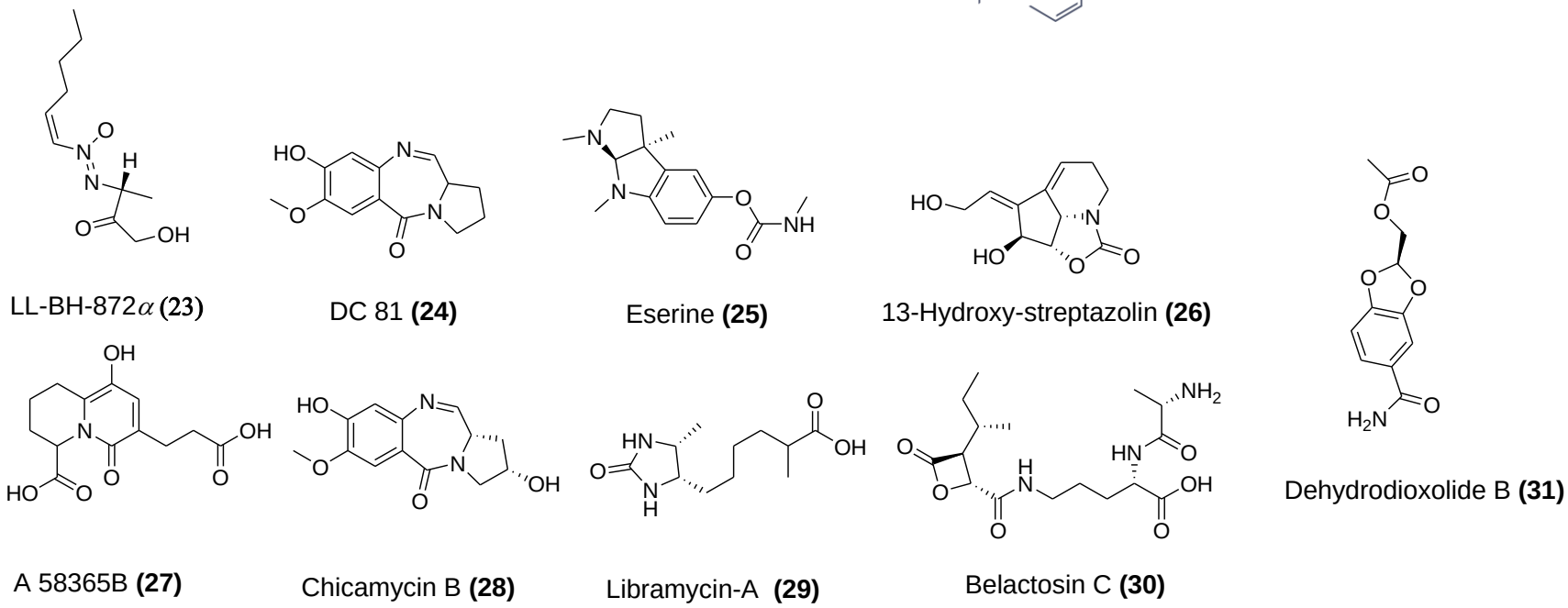
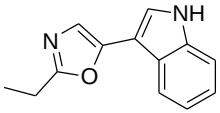
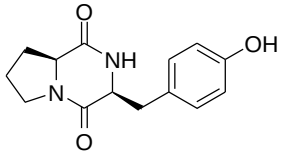


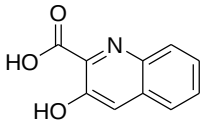
Figure S5b. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + UA23**



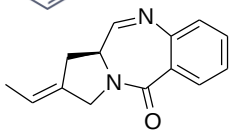
Pimprinethine **(32)**



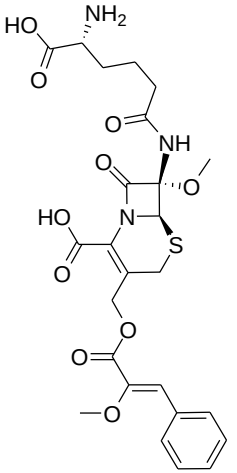
Maculosin **(33)**

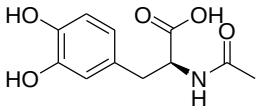


3-Hydroxyquinoline-2-carboxylic acid **(34)**

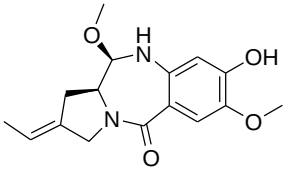


Prothracarcin **(35)**

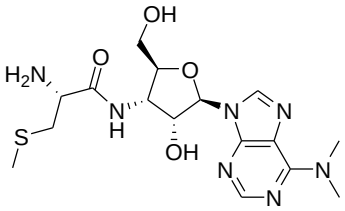




N-acetyl-3,4-dihydroxy-L-phenylalanine **(36)**



Tomaymycin **(37)**



Cystocin (**38**)

Deoxycephamycin B **(39)**

Figure S6b. Dereplicated metabolites from LC-HRESIMS analysis of strains **UA17 + mycolic acid**