

Supplementary material for manuscript entitled 'Silver nanostructured substrates in LDI-MS
of low molecular weight compounds'

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Table S1. The m/z values for compounds detected using LDI-MS nanostructured substrates

Compound	m/z	[M]
<i>plate AgPs0.02</i>		
14:0-13:0-14:0 TG	820.13	$[M+^{107}\text{Ag}]^+$
14:0-15:1-14:0 TG	848.35	$[M+^{109}\text{Ag}]^+$
14:0-17:1-14:0 TG	874.54	$[M+^{107}\text{Ag}]^+$
16:0-15:1-16:0 TG	904.63	$[M+^{109}\text{Ag}]^+$
16:0-17:1-16:0 TG	932.88	$[M+^{109}\text{Ag}]^+$
16:0-19:2-16:0 TG	958.10	$[M+^{109}\text{Ag}]^+$
18:1-17:1-18:1 TG	876.57	$[M+H]^+$
18:1-19:2-18:1 TG	902.78	$[M+H]^+$
adonitol	258.98	$[M+^{107}\text{Ag}]^+$
cholesterol	493.41	$[M+^{107}\text{Ag}]^+$
alanine	195.96	$[M+^{107}\text{Ag}]^+$
fructose	286.97	$[M+^{107}\text{Ag}]^+$
glucose	286.96	$[M+^{107}\text{Ag}]^+$
methionine	255.97	$[M+^{107}\text{Ag}]^+$
palmitic acid	363.14	$[M+^{107}\text{Ag}]^+$
oleic acid	389.16	$[M+^{107}\text{Ag}]^+$
phenylalanine	271.99	$[M+^{107}\text{Ag}]^+$
serine	211.59	$[M+^{107}\text{Ag}]^+$
shikimic acid	281.00	$[M+^{107}\text{Ag}]^+$
17:0-14-1 PE	677.42	$[M-3H]^-$
17:0-16:1 PE	705.39	$[M-3H]^-$
17:0-18:1 PE	733.37	$[M-3H]^-$
17:0-20:3 PE	757.34	$[M-3H]^-$
17:0-22:4 PE	783.34	$[M-3H]^-$
adonitol	152.36	$[M]^{*-}$

alanine	90.65	[M] ^{*-}
fructose	180.01	[M] ^{*-}
glucose	180.21	[M] ^{*-}
palmitic acid	255.41	[M] ^{*-}
oleic acid	281.31	[M] ^{*-}
phenylalanine	165.44	[M] ^{*-}
serine	106.07	[M] ^{*-}
shikimic acid	173.94	[M] ^{*-}
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<i>plate AgPs0.03</i>		
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14:0-13:0-14:0 TG	736.03	[M+Na] ⁺
14:0-15:1-14:0 TG	846.74	[M+ ¹⁰⁷ Ag] ⁺
14:0-17:1-14:0 TG	790.90	[M+Na] ⁺
16:0-15:1-16:0 TG	818.82	[M+Na] ⁺
16:0-17:1-16:0 TG	846.74	[M+Na] ⁺
16:0-19:2-16:0 TG	872.65	[M+Na] ⁺
18:1-17:1-18:1 TG	898.89	[M+Na] ⁺
18:1-19:2-18:1 TG	924.44	[M+Na] ⁺
18:1-21:2-18:1 TG	968.54	[M+K] ⁺
adonitol	258.98	[M+ ¹⁰⁷ Ag] ⁺
cholesterol	493.38	[M+ ¹⁰⁷ Ag] ⁺
alanine	195.96	[M+ ¹⁰⁷ Ag] ⁺
fructose	286.98	[M+ ¹⁰⁷ Ag] ⁺
glucose	286.97	[M+ ¹⁰⁷ Ag] ⁺
methionine	255.92	[M+ ¹⁰⁷ Ag] ⁺
palmitic acid	363.13	[M+ ¹⁰⁷ Ag] ⁺
oleic acid	389.15	[M+ ¹⁰⁷ Ag] ⁺
phenylalanine	271.99	[M+ ¹⁰⁷ Ag] ⁺
serine	211.91	[M+ ¹⁰⁷ Ag] ⁺
shikimic acid	280.97	[M+ ¹⁰⁷ Ag] ⁺
17:0-14-1 PE	677.75	[M-3H] ⁻
17:0-16:1 PE	705.76	[M-3H] ⁻
17:0-18:1 PE	733.80	[M-3H] ⁻
17:0-20:3 PE	757.83	[M-3H] ⁻
17:0-22:4 PE	783.88	[M-3H] ⁻
adonitol	152.34	[M] ^{*-}

cholesterol	385.83	$[M]^{*-}$
alanine	89.97	$[M]^{*-}$
fructose	180.01	$[M]^{*-}$
glucose	180.29	$[M]^{*-}$
methionine	149.63	$[M]^{*-}$
palmitic acid	256.58	$[M]^{*-}$
oleic acid	281.31	$[M]^{*-}$
phenylalanine	165.46	$[M]^{*-}$
serine	105.96	$[M]^{*-}$
shikimic acid	174.00	$[M]^{*-}$
<i>plate AgPs0.04</i>		
14:0-13:0-14:0 TG	736.20	$[M+Na]^+$
14:0-15:1-14:0 TG	762.11	$[M+Na]^+$
14:0-17:1-14:0 TG	790.00	$[M+Na]^+$
16:0-15:1-16:0 TG	818.87	$[M+Na]^+$
16:0-17:1-16:0 TG	846.73	$[M+Na]^+$
16:0-19:2-16:0 TG	872.56	$[M+Na]^+$
18:1-17:1-18:1 TG	898.38	$[M+Na]^+$
18:1-19:2-18:1 TG	924.17	$[M+Na]^+$
18:1-21:2-18:1 TG	952.81	$[M+H]^+$
adonitol	258.97	$[M+^{107}Ag]^+$
cholesterol	493.28	$[M+^{107}Ag]^+$
alanine	195.97	$[M+^{107}Ag]^+$
fructose	286.96	$[M+^{107}Ag]^+$
glucose	286.97	$[M+^{107}Ag]^+$
methionine	255.98	$[M+^{107}Ag]^+$
palmitic acid	363.44	$[M+^{107}Ag]^+$
oleic acid	389.09	$[M+^{107}Ag]^+$
phenylalanine	272.00	$[M+^{107}Ag]^+$
serine	211.83	$[M+^{107}Ag]^+$
shikimic acid	280.97	$[M+^{107}Ag]^+$
15:0 LPC	487.12	$[M+H]^+$
17:0 LPC	515.47	$[M+H]^+$
19:0 LPC	543.01	$[M+H]^+$
adonitol	152.24	$[M]^{*-}$

cholesterol	385.83	[M] ^{*--}
alanine	90.16	[M] ^{*--}
fructose	180.36	[M] ^{*--}
glucose	180.32	[M] ^{*--}
methionine	149.57	[M] ^{*--}
palmitic acid	255.51	[M] ^{*--}
oleic acid	281.38	[M] ^{*--}
phenylalanine	165.41	[M] ^{*--}
serine	106.01	[M] ^{*--}
shikimic acid	173.96	[M] ^{*--}
<hr/> <i>plate AgPs0.06</i> <hr/>		
14:0-13:0-14:0 TG	736.24	[M+Na] ⁺
14:0-15:1-14:0 TG	846.78	[M+ ¹⁰⁷ Ag] ⁺
14:0-17:1-14:0 TG	790.05	[M+Na] ⁺
16:0-15:1-16:0 TG	818.93	[M+Na] ⁺
16:0-17:1-16:0 TG	846.78	[M+Na] ⁺
16:0-19:2-16:0 TG	872.62	[M+Na] ⁺
18:1-17:1-18:1 TG	898.44	[M+Na] ⁺
18:1-19:2-18:1 TG	924.25	[M+Na] ⁺
18:1-21:2-18:1 TG	952.02	[M+Na] ⁺
adonitol	258.97	[M+ ¹⁰⁷ Ag] ⁺
cholesterol	493.65	[M+ ¹⁰⁷ Ag] ⁺
alanine	195.96	[M+ ¹⁰⁷ Ag] ⁺
fructose	286.97	[M+ ¹⁰⁷ Ag] ⁺
glucose	286.96	[M+ ¹⁰⁷ Ag] ⁺
methionine	255.96	[M+ ¹⁰⁷ Ag] ⁺
palmitic acid	363.45	[M+ ¹⁰⁷ Ag] ⁺
oleic acid	389.03	[M+ ¹⁰⁷ Ag] ⁺
phenylalanine	271.99	[M+ ¹⁰⁷ Ag] ⁺
serine	211.97	[M+ ¹⁰⁷ Ag] ⁺
shikimic acid	280.95	[M+ ¹⁰⁷ Ag] ⁺
adonitol	152.36	[M] ^{*--}
cholesterol	385.82	[M] ^{*--}
alanine	90.34	[M] ^{*--}
fructose	180.11	[M] ^{*--}

glucose	180.15	[M] ^{*-}
methionine	149.42	[M] ^{*-}
palmitic acid	255.41	[M] ^{*-}
oleic acid	281.03	[M] ^{*-}
phenylalanine	165.46	[M] ^{*-}
serine	106.04	[M] ^{*-}
shikimic acid	174.07	[M] ^{*-}
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<i>plate AgPs0.11</i>		
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14:0-13:0-14:0 TG	736.71	[M+Na] ⁺
14:0-15:1-14:0 TG	762.72	[M+Na] ⁺
14:0-17:1-14:0 TG	790.75	[M+Na] ⁺
16:0-15:1-16:0 TG	818.74	[M+Na] ⁺
16:0-17:1-16:0 TG	846.81	[M+Na] ⁺
16:0-19:2-16:0 TG	872.77	[M+Na] ⁺
18:1-17:1-18:1 TG	898.81	[M+Na] ⁺
18:1-19:2-18:1 TG	924.83	[M+Na] ⁺
18:1-21:2-18:1 TG	952.85	[M+Na] ⁺
adonitol	258.45	[M+ ¹⁰⁷ Ag] ⁺
cholesterol	493.62	[M+ ¹⁰⁷ Ag] ⁺
alanine	195.98	[M+ ¹⁰⁷ Ag] ⁺
fructose	286.99	[M+ ¹⁰⁷ Ag] ⁺
glucose	286.96	[M+ ¹⁰⁷ Ag] ⁺
methionine	255.96	[M+ ¹⁰⁷ Ag] ⁺
palmitic acid	363.11	[M+ ¹⁰⁷ Ag] ⁺
oleic acid	389.35	[M+ ¹⁰⁷ Ag] ⁺
phenylalanine	271.99	[M+ ¹⁰⁷ Ag] ⁺
serine	211.81	[M+ ¹⁰⁷ Ag] ⁺
shikimic acid	280.95	[M+ ¹⁰⁷ Ag] ⁺
adonitol	152.38	[M] ^{*-}
cholesterol	385.43	[M] ^{*-}
alanine	89.78	[M] ^{*-}
fructose	180.24	[M] ^{*-}
glucose	180.20	[M] ^{*-}
methionine	149.40	[M] ^{*-}
palmitic acid	255.38	[M] ^{*-}

oleic acid	281.29	[M] ^{*-}
phenylalanine	165.22	[M] ^{*-}
serine	105.27	[M] ^{*-}
shikimic acid	174.06	[M] ^{*-}
17:0-14:1 PE	678.25	[M-2H] ⁻
17:0-16:1 PE	706.24	[M-2H] ⁻
17:0-18:1 PE	734.24	[M-2H] ⁻
17:0-20:3 PE	758.23	[M-2H] ⁻
17:0-22:4 PE	784.25	[M-2H] ⁻
14:0-13:0-14:0 TG	711.23	[M-2H] ⁻
14:0-15:1-14:0 TG	737.23	[M-2H] ⁻
14:0-17:1-14:0 TG	765.26	[M-2H] ⁻
16:0-15:1-16:0 TG	793.29	[M-2H] ⁻
16:0-17:1-16:0 TG	821.34	[M-2H] ⁻
16:0-19:2-16:0 TG	847.38	[M-2H] ⁻
18:1-17:1-18:1 TG	873.42	[M-2H] ⁻
18:1-19:2-18:1 TG	899.48	[M-2H] ⁻
<hr/> <i>plate AgPs0.17</i> <hr/>		
14:0-15:1-14:0 TG	846.35	[M+ ¹⁰⁷ Ag] ⁺
14:0-17:1-14:0 TG	874.26	[M+ ¹⁰⁷ Ag] ⁺
16:0-15:1-16:0 TG	818.27	[M+Na] ⁺
16:0-17:1-16:0 TG	846.72	[M+Na] ⁺
16:0-19:2-16:0 TG	872.42	[M+Na] ⁺
18:1-17:1-18:1 TG	898.53	[M+Na] ⁺
18:1-19:2-18:1 TG	902.38	[M+H] ⁺
18:1-21:2-18:1 TG	930.55	[M+H] ⁺
adonitol	259.00	[M+ ¹⁰⁷ Ag] ⁺
cholesterol	493.20	[M+ ¹⁰⁷ Ag] ⁺
alanine	195.96	[M+ ¹⁰⁷ Ag] ⁺
fructose	286.99	[M+ ¹⁰⁷ Ag] ⁺
glucose	286.99	[M+ ¹⁰⁷ Ag] ⁺
methionine	255.98	[M+ ¹⁰⁷ Ag] ⁺
palmitic acid	363.14	[M+ ¹⁰⁷ Ag] ⁺
oleic acid	389.06	[M+ ¹⁰⁷ Ag] ⁺
phenylalanine	272.01	[M+ ¹⁰⁷ Ag] ⁺

serine	211.76	$[M+^{107}\text{Ag}]^+$
shikimic acid	280.99	$[M+^{107}\text{Ag}]^+$
adonitol	152.54	$[M]^{*-}$
cholesterol	385.79	$[M]^{*-}$
alanine	90.46	$[M]^{*-}$
fructose	180.14	$[M]^{*-}$
glucose	180.11	$[M]^{*-}$
methionine	149.55	$[M]^{*-}$
palmitic acid	255.37	$[M]^{*-}$
oleic acid	281.30	$[M]^{*-}$
phenylalanine	165.39	$[M]^{*-}$
serine	106.20	$[M]^{*-}$
shikimic acid	174.07	$[M]^{*-}$
<hr/> <i>plate AgPs0.19</i> <hr/>		
14:0-13:0-14:0 TG	736.63	$[M+\text{Na}]^+$
14:0-15:1-14:0 TG	846.76	$[M+^{107}\text{Ag}]^+$
14:0-17:1-14:0 TG	790.69	$[M+\text{Na}]^+$
16:0-15:1-16:0 TG	818.72	$[M+\text{Na}]^+$
16:0-17:1-16:0 TG	846.76	$[M+\text{Na}]^+$
16:0-19:2-16:0 TG	872.78	$[M+\text{Na}]^+$
18:1-17:1-18:1 TG	898.79	$[M+\text{Na}]^+$
18:1-19:2-18:1 TG	924.81	$[M+\text{Na}]^+$
18:1-21:2-18:1 TG	952.85	$[M+\text{Na}]^+$
adonitol	259.00	$[M+^{107}\text{Ag}]^+$
cholesterol	493.22	$[M+^{107}\text{Ag}]^+$
alanine	195.77	$[M+^{107}\text{Ag}]^+$
fructose	286.98	$[M+^{107}\text{Ag}]^+$
glucose	286.98	$[M+^{107}\text{Ag}]^+$
methionine	255.97	$[M+^{107}\text{Ag}]^+$
palmitic acid	363.12	$[M+^{107}\text{Ag}]^+$
oleic acid	389.05	$[M+^{107}\text{Ag}]^+$
phenylalanine	271.98	$[M+^{107}\text{Ag}]^+$
serine	211.80	$[M+^{107}\text{Ag}]^+$
shikimic acid	280.95	$[M+^{107}\text{Ag}]^+$
adonitol	152.39	$[M]^{*-}$

alanine	90.15	[M] ^{*--}
fructose	180.03	[M] ^{*--}
glucose	180.41	[M] ^{*--}
methionine	149.55	[M] ^{*--}
palmitic acid	255.44	[M] ^{*--}
oleic acid	281.32	[M] ^{*--}
phenylalanine	165.41	[M] ^{*--}
serine	106.17	[M] ^{*--}
shikimic acid	174.51	[M] ^{*--}
<hr/> <i>plate AgPs0.2</i> <hr/>		
14:0-13:0-14:0 TG	736.66	[M+Na] ⁺
14:0-15:1-14:0 TG	762.68	[M+Na] ⁺
14:0-17:1-14:0 TG	790.71	[M+Na] ⁺
16:0-15:1-16:0 TG	818.74	[M+Na] ⁺
16:0-17:1-16:0 TG	846.77	[M+Na] ⁺
16:0-19:2-16:0 TG	872.78	[M+Na] ⁺
18:1-17:1-18:1 TG	898.80	[M+Na] ⁺
18:1-19:2-18:1 TG	924.81	[M+Na] ⁺
18:1-21:2-18:1 TG	952.83	[M+Na] ⁺
adonitol	258.99	[M+ ¹⁰⁷ Ag] ⁺
cholesterol	493.36	[M+ ¹⁰⁷ Ag] ⁺
alanine	195.95	[M+ ¹⁰⁷ Ag] ⁺
fructose	286.99	[M+ ¹⁰⁷ Ag] ⁺
glucose	286.99	[M+ ¹⁰⁷ Ag] ⁺
methionine	255.97	[M+ ¹⁰⁷ Ag] ⁺
palmitic acid	363.16	[M+ ¹⁰⁷ Ag] ⁺
oleic acid	389.11	[M+ ¹⁰⁷ Ag] ⁺
phenylalanine	272.00	[M+ ¹⁰⁷ Ag] ⁺
serine	211.76	[M+ ¹⁰⁷ Ag] ⁺
shikimic acid	280.99	[M+ ¹⁰⁷ Ag] ⁺
adonitol	152.30	[M] ^{*--}
alanine	90.36	[M] ^{*--}
fructose	180.45	[M] ^{*--}
glucose	180.41	[M] ^{*--}
methionine	149.36	[M] ^{*--}

palmitic acid	255.42	$[M]^{*-}$
oleic acid	281.33	$[M]^{*-}$
phenylalanine	165.15	$[M]^{*-}$
serine	106.08	$[M]^{*-}$
shikimic acid	174.45	$[M]^{*-}$
17:0-14:1 PE	677.90	$[M-3H]^{-}$
17:0-16:1 PE	705.93	$[M-3H]^{-}$
17:0-18:1 PE	733.97	$[M-3H]^{-}$
17:0-20:3 PE	757.99	$[M-2H]^{-}$
17:0-22:4 PE	784.04	$[M-2H]^{-}$
