

Table 1 Template molecule, functional precursor and cross-linking precursor for the preparation of aucubin imprinted polymers.

Polymers	Template	Functional precursor	Cross-linking precursor
EM@MIP1	AU (0.1mmol)	APTES (0.4mmol)	TEOS(0.5mmol)
EM@NIP1	--	APTES (0.4mmol)	TEOS(0.5mmol)
EM@MIP2	AU (0.1mmol)	APTES (0.6mmol)	TEOS(1.0mmol)
EM@NIP2	--	APTES (0.6mmol)	TEOS(1.0mmol)
EM@MIP3	AU (0.1mmol)	APTES (0.8mmol)	TEOS(1.5mmol)
EM@NIP3	--	APTES (0.8mmol)	TEOS(1.5mmol)
EM@MIP4	AU (0.1mmol)	APTES (1.0mmol)	TEOS(2.0mmol)
EM@NIP4	--	APTES (1.0mmol)	TEOS(2.0mmol)

-- without addition of template.

Table 2 Retention behavior for the EM@MIP3 and the EM@NIP3 column toward the template and its structurally related compounds when acetonitrile containing various amount of water was used as the mobile phase.

H ₂ O content	Analytes	EM@MIP3 column		EM@NIP3 column	
		<i>k</i>	α	<i>k</i>	α
0	AU	10.64±0.834	--	1.558±0.032	--
	BG	5.460±0.525	1.948±0.153	2.752±0.019	0.5661±0.026
	PG	5.371±0.712	1.981±0.159	2.449±0.030	0.6362±0.033
	GP	5.700±0.607	1.866±0.146	2.319±0.028	0.6718±0.028
1%	AU	7.470±0.811	--	1.571±0.035	--
	BG	2.672±0.117	2.799±0.304	1.931±0.029	0.8136±0.037
	PG	2.660±0.203	2.812±0.325	1.447±0.006	1.086±0.044
	GP	2.900±0.107	2.576±0.288	1.382±0.011	1.137±0.045
2%	AU	5.959±0.527	--	2.288±0.018	--
	BG	2.690±0.265	2.216±0.202	2.411±0.036	0.9491±0.025
	PG	2.780±0.223	2.144±0.195	2.202±0.025	1.039±0.019
	GP	2.710±0.118	2.200±0.138	2.336±0.019	0.9795±0.017
5%	AU	3.743±0.238	--	2.381±0.045	--
	BG	2.740±0.227	1.366±0.096	2.379±0.015	0.9933±0.027
	PG	2.705±0.076	1.384±0.088	2.089±0.030	1.140±0.020
	GP	2.883±0.153	1.299±0.836	2.423±0.026	0.9826±0.017
10%	AU	1.898±0.047	--	1.244±0.033	--
	BG	1.458±0.101	1.301±0.057	1.290±0.022	0.9643±0.031
	PG	1.470±0.205	1.291±0.062	1.204±0.017	1.033±0.016
	GP	1.421±0.088	1.336±0.053	1.377±0.007	0.9034±0.025

Table 3 On-line application for the EM@MIP3 column to the separation of aucubin in *Eucommia ulmoides*.

Injection volume (μL)	Product purity (%)	Recovery of AU (%)
20	92.32 ± 3.17	96.73 ± 5.82
40	91.61 ± 3.06	95.58 ± 4.64
60	85.41 ± 1.58	95.16 ± 2.87
80	80.30 ± 1.62	92.84 ± 2.26
100	72.65 ± 1.37	90.62 ± 2.05
Crude extract without using this MIP	58.38 ± 1.63	--

Table 4 Sample analysis for aucubin in seeds of *Eucommia ulmoides* by MIP solid phase extraction

Samole No.	Content of aucubin (g/100g)	Average value (g/100g)	R.S.D. (%)
1#	3.162	3.147	1.711
2#	3.107		
3#	3.154		
4#	3.226		
5#	3.088		