

Table S1. The calculation of the equilibrium constant.

Initial SHA concentration, M	Residual SHA concentration, M ([H ₂ L])	lg [H ₂ L]	Xerogel absorbance (A _i)	lg (A _i /(A _{ex} −A _i))
7.5·10 ^{−5}	6.2·10 ^{−5}	−4.21	0.0179	−1.64
1.5·10 ^{−4}	1.3·10 ^{−4}	−3.88	0.0377	−1.31
2.6·10 ^{−4}	2.2·10 ^{−4}	−3.65	0.0593	−1.10
7.5·10 ^{−4}	6.3·10 ^{−4}	−3.20	0.1344	−0.70
1.5·10 ^{−3}	1.3·10 ^{−3}	−2.90	0.2320	−0.39
2.3·10 ^{−3}	1.9·10 ^{−3}	−2.73	0.3096	−0.20
3.0·10 ^{−3}	2.5·10 ^{−3}	−2.60	0.3729	−0.06
5.0·10 ^{−3}	4.1·10 ^{−3}	−2.38	0.5075	0.23
1.0·10 ^{−2}	8.7·10 ^{−3}	−2.06	0.6026	0.47
1.5·10 ^{−2}	1.4·10 ^{−2}	−1.85	0.7182	0.92
2.0·10 ^{−2}	1.9·10 ^{−2}	−1.72	0.8051 (A _{ex})	−

SHA—Salicylhydroxamic acid.

Table S2. The interference of albumin, ascorbic acid, and salicylate on the determination of 1.0·10^{−4} M SHA.

Interfering substance concentration		SHA found ·10 ⁴ , M	Error, %
Albumin	100 mg/L	1.01	0.6
	500 mg/L	0.92	−7.7
	700 mg/L	0.94	−5.6
Ascorbic acid	1.0·10 ^{−4} M	1.05	4.6
	5.0·10 ^{−4} M	1.08	7.5
	1.0·10 ^{−3} M	0.64	−35.8
Salicylate	5.0·10 ^{−4} M	1.06	5.7
	1.0·10 ^{−3} M	1.09	9.2
	5.0·10 ^{−3} M	1.10	10.3

SHA—Salicylhydroxamic acid.