



1 Gallic acid	2 Protocatechuic acid	3 Catechin
4 <i>p</i> -Hydroxybenzoic acid	5 Chlorogenic acid	6 Vanillic acid
7 <i>trans</i> -Caffeic acid	8 <i>cis</i> -Caffeic acid	9 Syringic acid
10 Vanillin	11 <i>trans-p</i> -Coumaric acid	12 <i>cis-p</i> -Coumaric acid
13 <i>trans</i> -Ferulic acid	14 Coumarin	15 3,5-Dimethoxy-4-hydroxycinnamic acid (Sinapic acid)
16 <i>cis</i> -Ferulic acid	17 Benzoic acid	18 Salicylic acid
19 Cinnamic acid	20 <i>p</i> -Chlorobenzoic acid	

HPLC Conditions

Column	CAPCELL PAK C ₁₈ UG120 S5 : 1.5 mm i.d.×250 mm
Mobile phase	(A) 2vol% CH ₃ COOH (B) CH ₃ OH B 15% - 40% (22.5min), 40% (27min) - 63% (40.5min), 63% (42min) - 99% (52min) Gradient
Flow rate	100 μL/min
Temperature	40 °C

Detect UV 254 nm

Inj. vol. 3 μ L