

Application Note: Rapid Ginsenoside content determination

Ginsenosides are a class of natural product steroid glycosides and triterpene saponins. Compounds in this family are found almost exclusively in the plant genus *Panax* (ginseng), which has a long history of use in traditional medicine that has led to the study of pharmacological effects of ginseng compounds. In the 2020 edition of the Chinese Pharmacopoeia, the determination of ginsenoside content in Asian and American ginseng has the problem of long analysis time (100min required).

The novel Aurashell C18/AR chromatography column provides fast and high efficiency analysis of these compounds, once the mobile phase gradient conditions of the pharmacopoeia have been optimised, to reduce the analysis time from the original 100 minutes to less than 40 minutes. This reduced analysis time greatly improves the analytical efficiency and reduces the detection cost.

Column:

Aurashell C18/AR 2.7u 150*4.6mm
(PN: ASAR18-150-46-27)

Mobile Phase: A: Acetonitrile
B: Water

Gradient:

Time (min).	Acetonitrile (%)	Water (%)
0-12	19	81
12-19	19-29	81-71
19-24	29	71
24-34	29-40	71-60
34-40	19	81

Flow rate: 1ml/min
Wavelength: 203nm
Temperature: 30°C

DAD1A, Sig=203,4 Ref=off

