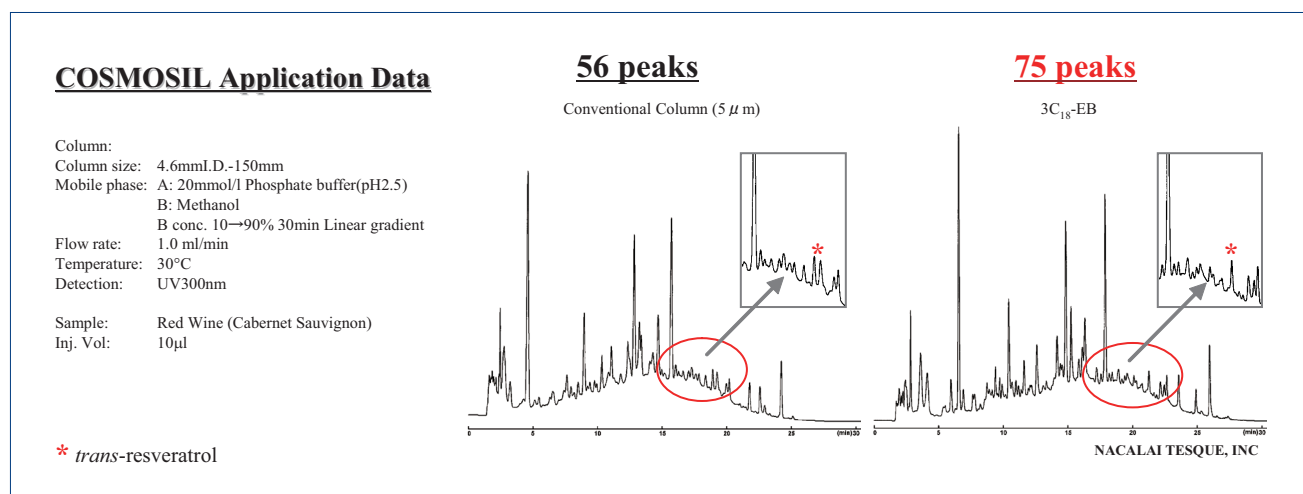


Polyphenols are a class of compounds consist of multiple phenol structural units. Research on polyphenols has developed considerably due to their effect on degenerative disease prevention. The followings are applications of polyphenols by COSMOSIL HPLC Columns.



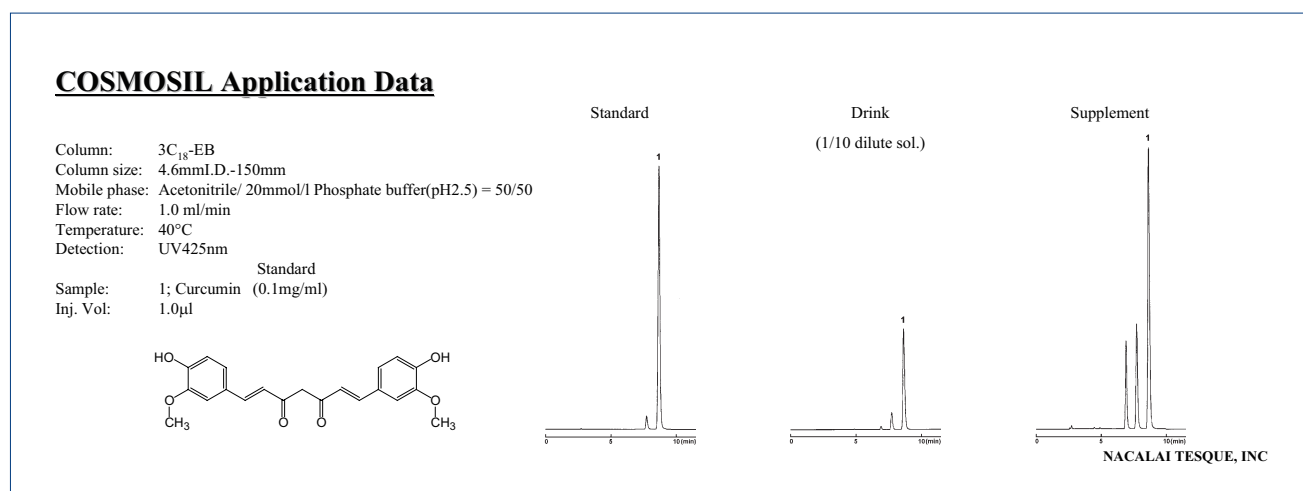
(1) Red Wines

Red wines are well known for its anti-oxidants property. COSMOSIL 3C₁₈-EB resolves more components than conventional ODS columns due to its better end-capping treatment.



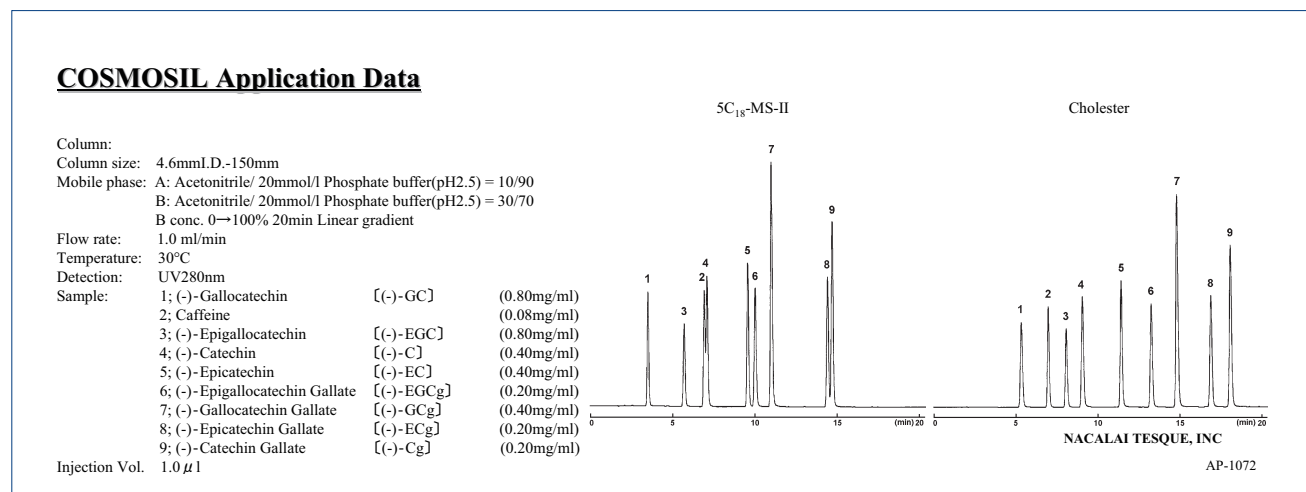
(2) Curcumins in Drinks or Supplements

Curcumin is the principal curcuminoid of the popular Indian spice turmeric. And it is well known for its antitumor, antioxidant, antiarthritic, anti-amyloid and anti-inflammatory properties. COSMOSIL 3C₁₈-EB offers sharp separation for metal coordination compounds like curcumins that are difficult to analyze by other ODS columns.



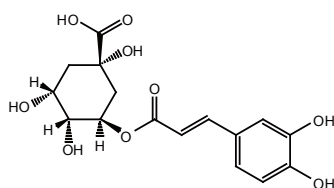
(3) Catechins

Catechins are a type of polyphenols found in green tea. They are known to affect human blood platelet aggregation and lipid peroxidation. COSMOSIL Cholester improves separation for structurally similar compounds like catechins that are difficult to analyze by ODS columns. This is due to Cholester column's rigid stationary phase structure and superior structural selectivity.

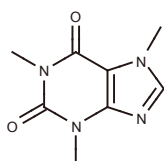


(4) Simultaneous analysis of Chlorogenic Acids and Caffeins

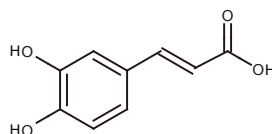
Coffee beans contain a combination of chlorogenic acid and caffeine. Chlorogenic acids are known for its antioxidative effect against reactive oxygen and improvements of lipid metabolis. COSMOSIL Cholester offers improved separation for structurally similar compounds like natural compounds or extracts that are difficult to analyze by ODS columns.



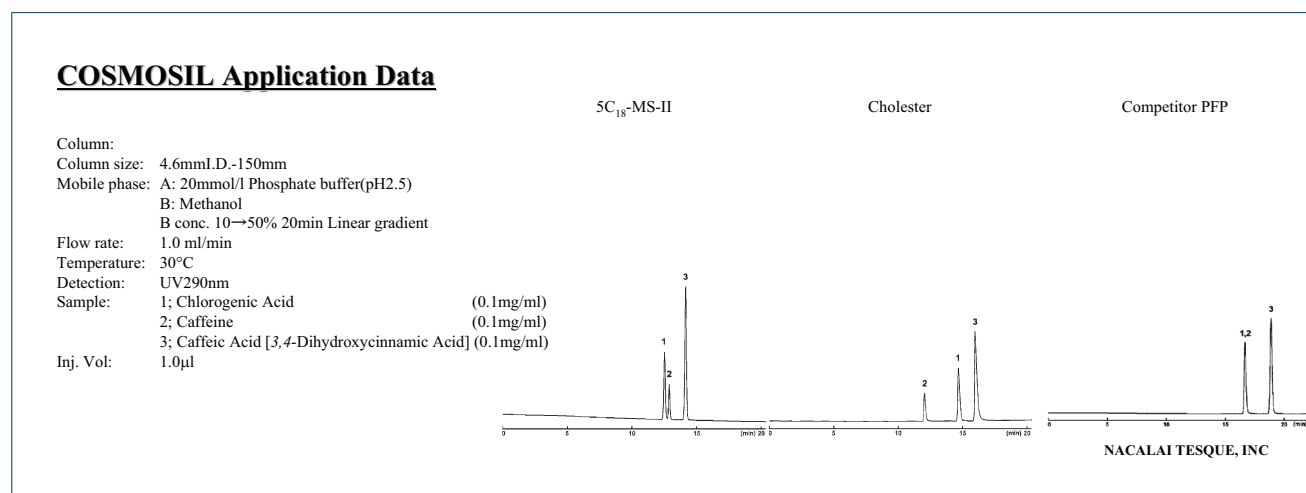
1; Chlorogenic Acid



2; Caffeine



3; Caffeic Acid



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