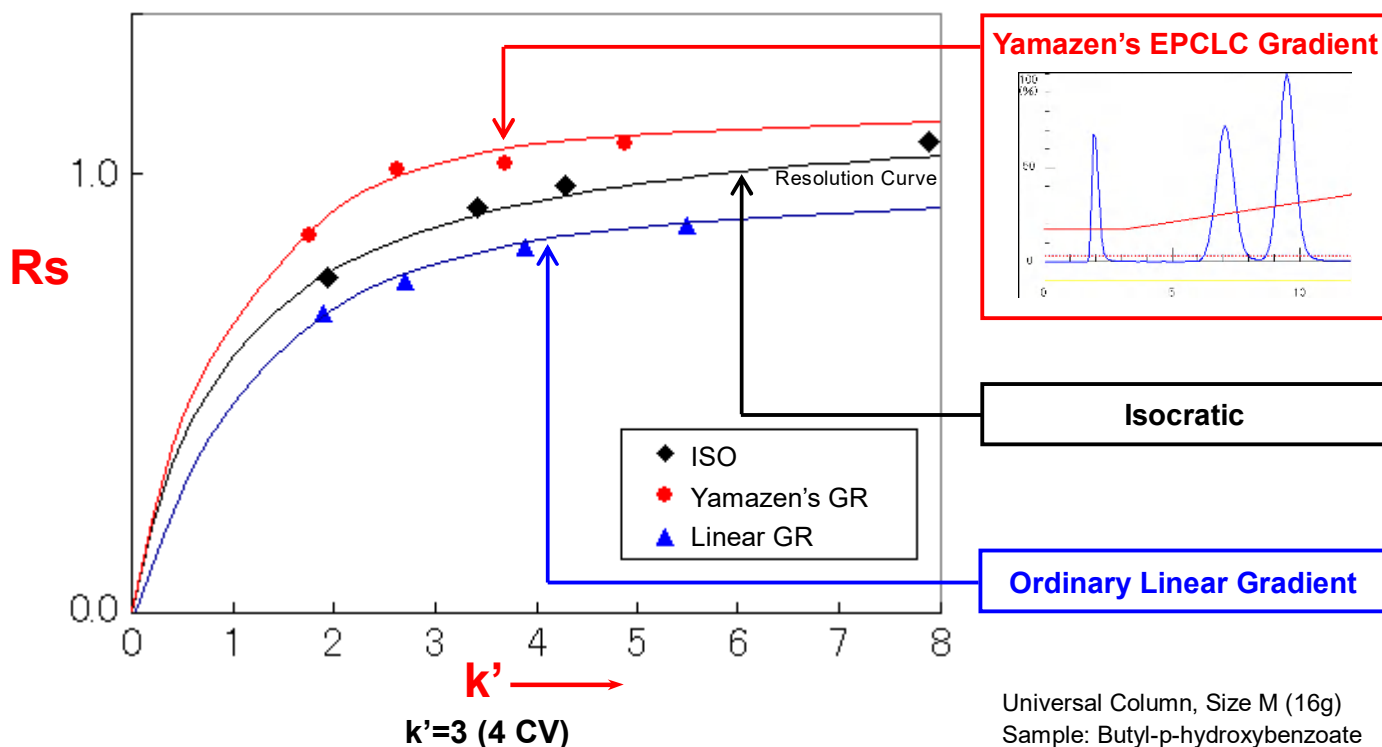


## EPCLC 'Smart Flash' Automated Flash Chromatography System EPCLC Achieves The Highest Resolution In Sample Purification.

### Capacity Factor $k'$ and Resolution $R_s$



Universal Column, Size M (16g)  
Sample: Butyl-p-hydroxybenzoate  
Methyl-p-hydroxybenzoate  
(5mg each in 1ml)

Resolution is defined by the following formula.

$$R_s = \frac{\sqrt{N}}{4} \frac{\alpha - 1}{\alpha} \frac{k'}{1 + k'}$$

$N$  : Theoretical Plate Number of the Column  
 $\alpha$  Separation Factor: decided by the column packing material.  
 $k'$  : Capacity Factor  $k' = V/V_0 - 1$  ( $V$ : Amount of elution solvent (ml),  $V_0$ : Void volume of a column)

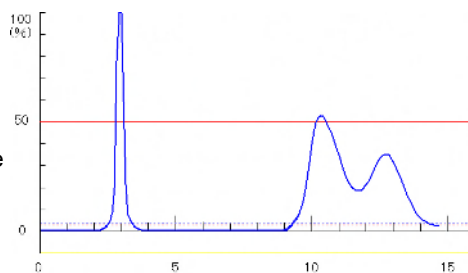
**Yamazen's EPCLC Gradient method works well for the easy-to-tail samples.**

TLC  
Hexane: Ethyl acetate = 7:3

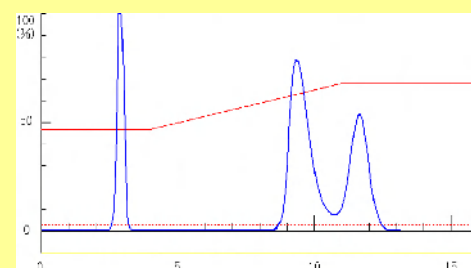


2-Hydroxyethyl Salicylate  
Nifedipine

#### ISOCRATIC Method



#### Yamazen's EPCLC Gradient Method



Sample: 0.2ml of the mixture of 2-Hydroxyethyl salicylate (6 mg/ml) and Nifedipin (80mg/ml)  
Column: Yamazen Universal Column, 60 Å/25-40um Silica Gel, L-size (40g)