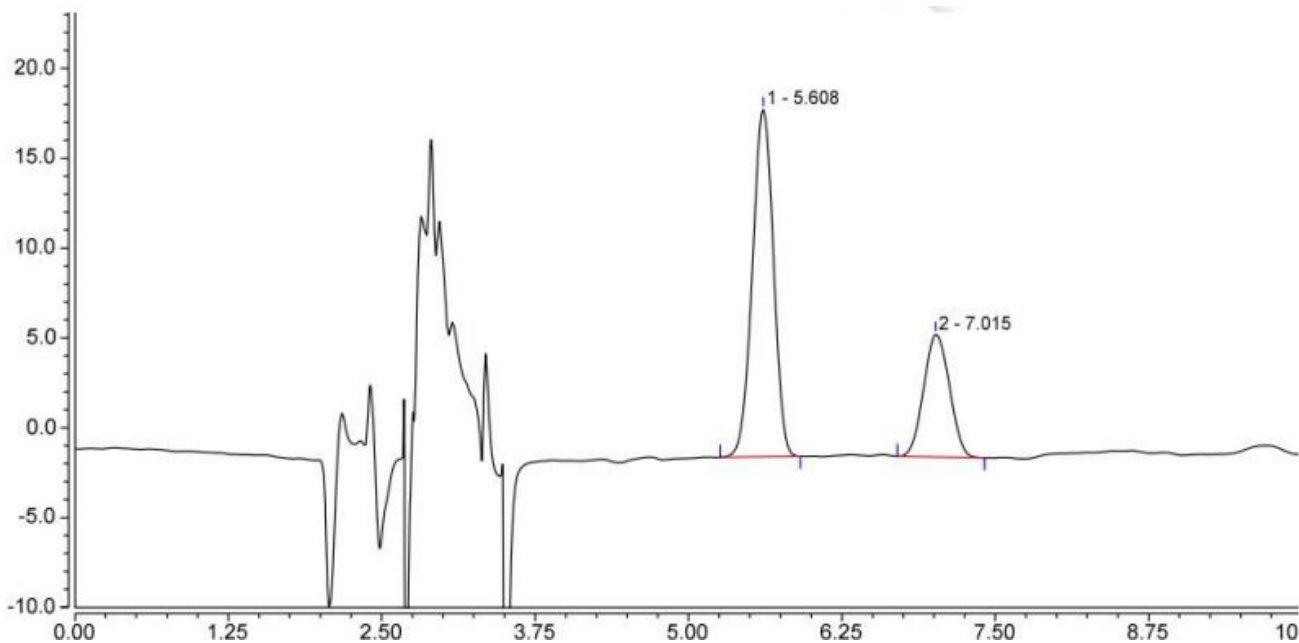


## Separation of homoserine and 2-amino-4-butyrolactone by Xtimate C18

### Method:

<b>Column</b>	Xtimate® C18 (4.6×250mm, 5µm)
<b>Mobile Phase</b>	0.01mol/L potassium dihydrogen phosphate (containing 2g/L sodium heptane sulfonate, adjusted to pH 1.5 with phosphoric acid)/acetonitrile=95/5
<b>Detection</b>	210nm
<b>Temperature</b>	30°C
<b>Flow Rate</b>	1.0 ml/min
<b>Injection Volume</b>	20 µL
<b>Note</b>	/

### Chromatogram and Data:



No.	S/N	Retention Time min	Area mAU*min	Height mAU	Plates (EP)	Asymmetry (EP)	Resolution (EP)
1	595.1	5.608	3.852	19.341	4945	0.97	3.94
2	210.2	7.015	1.667	6.832	5012	1.05	n.a.

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**Conclusion:**

Using Welch Xtimate® C18 (4.6×250mm, 5µm) chromatographic column, under the chromatographic conditions, the homoserine and 2-amino-4-butyrolactone can be completely separated, which can meet the detection requirements.

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