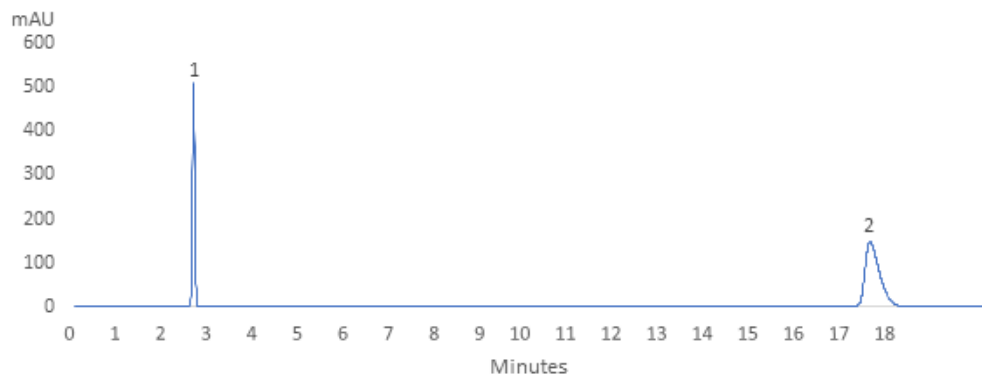


# Paracetamol and Ibuprofen

## Experimental

<b>Column:</b>	SVEA C8, 5 $\mu\text{m}$ 110 $\text{\AA}$ 4.6 x 250 mm
<b>Instrument:</b>	HPLC
<b>Mobilephase:</b>	0.058 M Phosphate buffer (pH 7.0) : Acetonitrile = 75:25
<b>Flow rate:</b>	1.5 mL/min
<b>Injection volume:</b>	5 $\mu\text{L}$
<b>Column temperature:</b>	25°C
<b>Detector:</b>	UV 220 nm
<b>Sample:</b>	1. 330 ppm Paracetamol in 0.2M Phosphate buffer pH 5.8 2. 400 ppm Ibuprofen in 0.2M Phosphate buffer pH 7.2



### Paracetamol Performance

Retention time = 2.6
USP Tailing = 1.06
Theoretical plate number = 47648
Area under curve = 1860.958

### Ibuprofen Performance

Retention time = 17.5
USP Tailing = 1.59
Theoretical plate number = 57708
Area under curve = 3299.468

