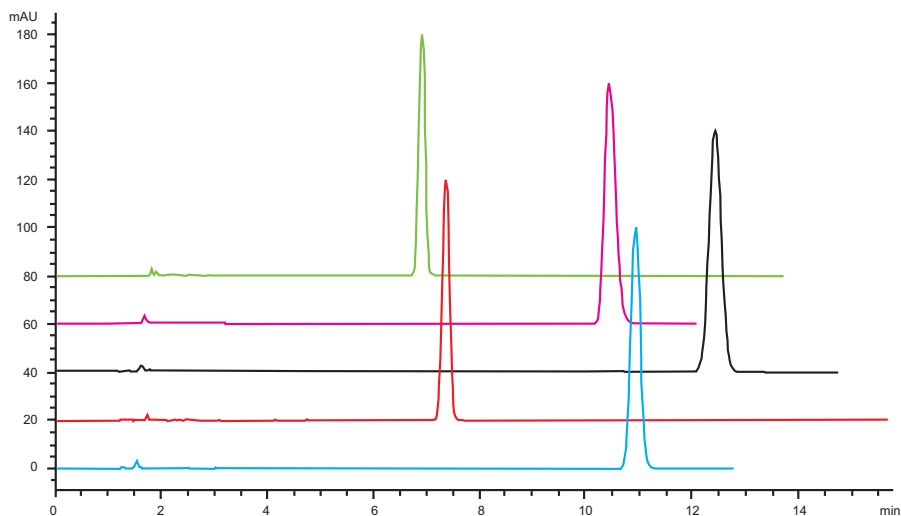
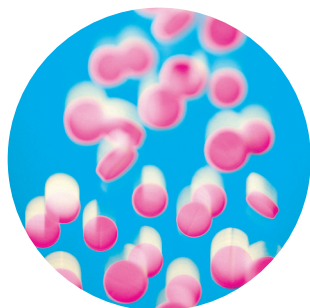
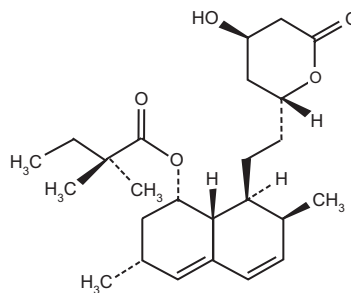


# Simvastatin Tablets (U.S.P)

On GraceSmart™ HPLC Column



- GraceSmart™ Part # 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

### Test condition (as USP assay)

**Test sample:** 0.1mg/ml Simvastatin in diluting solution

**Column:** 4.6 x 250mm C18

**Flow:** 1.5ml/min

**Eluent:** Isocratic, 0.39% (w/v) monobasic sodium phosphate (50% sodium hydroxide or 85% phosphoric to a pH 4.5): acetonitrile 35:65

**Detection:** Absorbance, 238nm

**Column temp. :** 45°C

**Injection Volume:** 10µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Retention Time (min)	N/A	<b>6.910</b>	10.442	12.429	7.366	10.933
Peak height	N/A	<b>261.3</b>	147.8	128.2	232.3	173.3
Theoretical plates	≥4500	<b>17970</b>	13553	13698	15896	19469
Tailing Factor	≤2.0	<b>1.026</b>	1.224	1.037	1.010	1.051
k'	≥3.0	<b>3.11</b>	4.43	7.35	3.48	6.86

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