

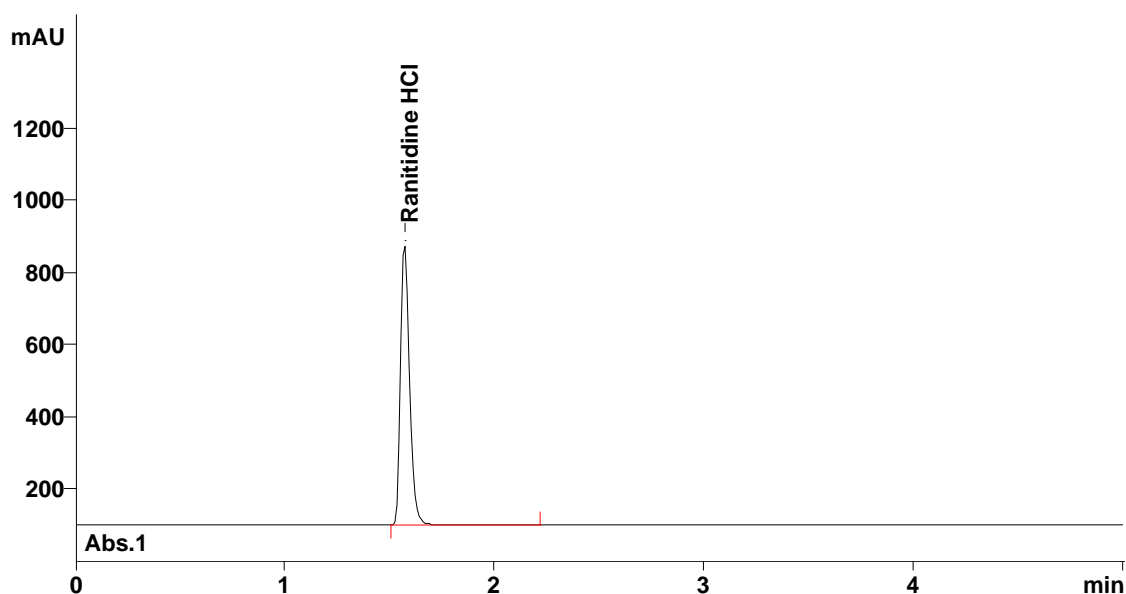
# IC Application Note No. U-36

<b>Title:</b>	<b>Assay determination of Ranitidine HCl according to USP</b>
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<b>Summary:</b>	Determination of Ranitidine hydrochloride according to USP 28-NF 23 (second supplement) using RP chromatography with UV detection.
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<b>Sample:</b>	Ranitidine hydrochloride
<b>Sample Preparation:</b>	112 mg dissolved in eluent

<b>Column:</b>	6.1008.100 Prontosil 120-5-C18 AQ 150
<b>Wavelength:</b>	322 nm
<b>Eluent:</b>	Methanol / 0.1 mol/L aqueous ammonium acetate (85:15)
<b>Flow:</b>	2.0 mL/min
<b>Injection Volume:</b>	10 $\mu$ L



<b>Chromatogram:</b>	Ranitidine HCl mg/mL
	<b>0.106</b>

## Results:

Test factors	Value	Limit	Result
Theoretical plates	6770	More than 700	PASS
Tailing factor	1.378	Less than 2.0	PASS
RSD (% , n = 6)	0.22	Less than 2.0	PASS