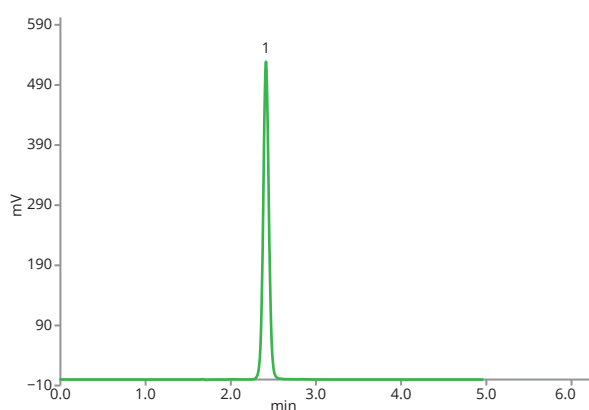


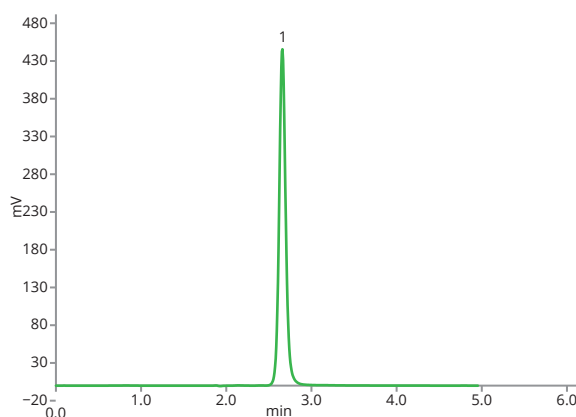
## HMF in Infusion Solution

The levels of the degradation product, 5-hydroxymethylfurfural (5-HMF), in Dextrose Injection is an important determination in pharmaceutical formulas and pharmacokinetic studies. ASTRA® DM shows better retention for polar compounds.

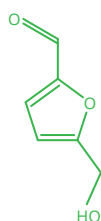
<b>Substance</b>	5-HFM, 5-Hydroxymethylfurfural, CAS Number 170678-36-1
<b>Synonym</b>	5-(Hydroxymethyl)furan-2-carbaldehyde
<b>Formula</b>	5-(Hydroxymethyl)-2-furyl]acetaldehyde



Standard mixture on ASTRA® C18-HE column



Standard mixture on ASTRA® DM column



5-Hydroxymethylfurfural



## HMF in Infusion Solution

<b>Column</b>	ASTRA® C18-HE, 5 µm / ASTRA® DM, 5 µm
<b>Dimensions</b>	150 mm × 4.6 mm / 150 mm × 4.6 mm
<b>Part number</b>	AST-5732-LK46 / AST-5810-LK46
<b>Mobile phase</b>	Methanol/water 40/60 (v/v) Isocratic elution
<b>Flow rate</b>	1.0 ml/min
<b>Temperature</b>	25 °C
<b>Injection volume</b>	2.5 µl
<b>Detection</b>	UV @284 nm
<b>Analytes</b>	<b>1. 5-Hydroxymethylfurfural</b>