

Analysis results of Aloe Vera Powder X-200 In Beheshti University

Green or Complete leaves Powder

HPLC WORK SHEET				
Aloe vera green powder				
Instrument Code:				
Column ID:	C18 15cm	Method:	Isocratic	Gradient ☐
Temperature:	25 °C	Detector: UV		
Flow rate:	0.8 mL/min		References:	USP 41
Mobile phase:	ACN: Water (phosphoric acid)			
Standard Specification				
Name:	Batch No:	Purity:	LOD	Weight
Aloin A,B	1415-73-2	97%	Methanol	100 mg
Concentration(ppm)	1.95-3.9-7.81-15.62-37.25-62.5-125	RSD	0.01	
Sample Assay				
Name: Aloe vera gel powder	Batch No: A	Aloin A,B: 1.56%	RSD: 0.01	
Calculation				
$\text{ConAloinA} = (28469.5 + 34047) / 12332 \longrightarrow \text{ConAloinA}: 5.07 \mu\text{g}/1\text{mg powder aloe vera gel}$ $\text{ConAloinB} = (53443.5 + 17682) / 10544 \longrightarrow \text{ConAloinB}: 10.57 \mu\text{g}/1\text{mg powder aloe vera gel}$				
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