

Annexure-IV

Calibration Information Sheet for Noise and Drift of Refractive Index Detector

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Calibration Information Sheet for Noise and Drift of Refractive Index Detector

Instrument Name:

Instrument ID No.:

Location	Frequency
Instrumental lab	Once in every six month

Noise and Drift:

Set Parameters

Pump Flow Rate	1.0 ml/min	Run Time	24.0 min
Noise Evaluation Start Time	3.0 min	Noise Evaluation Duration	20.0 min
Injection Volume	0.0 µl	Column Temperature	40.0°C

Measurement

Parameter	Value	Limit
ASTM Noise		≤ 10.000 nRIU
Drift		≤ 400.000 nRIU/Hr

Signal to Noise:

Set Parameters

Pump Flow Rate	1.0 ml/min	Column Temperature	40.0°C
Run Time	7.0 min	Injection Volume	10.0 µl
Noise Evaluation Start Time/Duration	3.00 min/3.00 min	Evaluation Standard Concentration	25 µg/ml (Certificate of Analysis)
Sample	RID Std Kit	Evaluation Compound	Glycerin
Detector Path Length	10 mm		

Measurement

Parameter	Value	Signal to Noise	Limit	Result
ASTM Noise			≥ 2000	
Height				

Response Linearity:

Set Parameters

Flow Rate	1.0 ml/min	Column Temperature	40.0°C
Run Time	2.0 min	Injection Volume	2.0 µl

Sample	RID Std Kit	Evaluation Compound	Glycerin
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Measurement

Sample	Theoretical Concentration (µg/ml)	Actual Concentration (µg/ml)	Area	Height	R/F	R/F Average	R/F STD	% RSD	Limit	Coefficient of Determination	Limit	Result
Std 1	5								≤		≥	
Std 2	10								10		0.	
Std 3	15								.0		99	
Std 4	25								0		50	
Std 5	50										0	

Calibration Date :	Next Calibration Date :
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Done By :	Checked By :
Name :	Name :
Designation :	Designation :
Date :	Date :