

ThermoFisher SCIENTIFIC

Performance Qualification

• *Injector Linearity*

• *Instruments and Fluidics*

<i>Instrument Name</i>	<i>Model</i>	<i>Supplier's Name</i>	<i>Serial Number</i>
Pump	HPG-3400RS	Thermo Scientific	8125299
Autosampler	WPS-3000TRS	Thermo Scientific	8125443
Column Oven	TCC-3000SD	Thermo Scientific	06012832
UV Detector	DAD-3000RS	Thermo Scientific	8043573
Chromeleon Datasystem	V. 6.80 SR16 Build 5387	Thermo Scientific	40640

<i>Accessories</i>	<i>Description</i>
Back Pressure Device	Capillary (L:15 m; ID:0,18 mm)
Sample 2	Caffeine in Water 10 µg/ml
Solvent A	Water (HPLC-Grade)

• *Additional Information*

Customer: Customer's Name
 Operator: Operator's Name
 Operator's Jobtitle

Execution Date: 2020-avr-07
 Next Qualification: 2020-oct

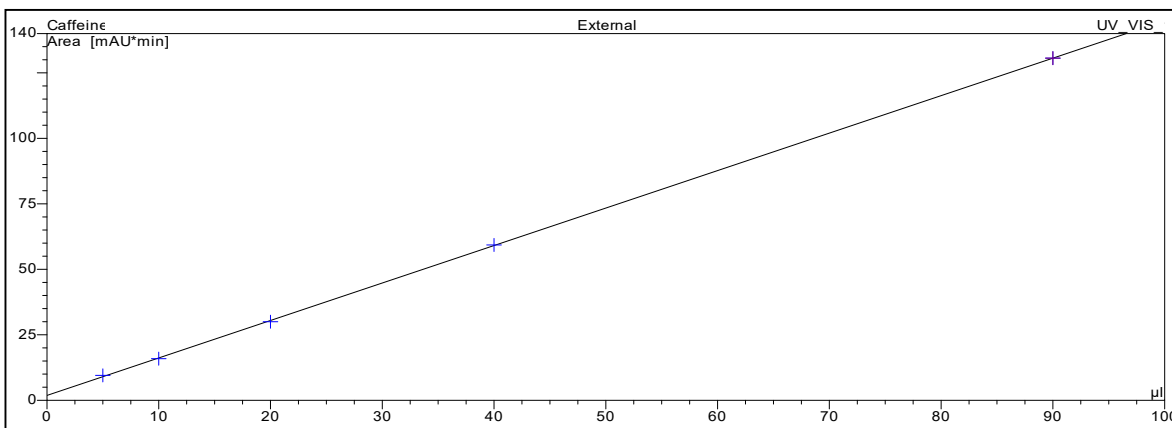
• *Limits, Values and Test Results*

	<i>Limit</i>	<i>Observed Value</i>	<i>Result</i>
Injector Linearity - Corr.	>= 99,90000 %	99,99692 %	Test passed
Injector Linearity	<= 1,000 % RSD	0,913 % RSD	Test passed

• *Signatures*

	<i>Signature</i>	<i>Date</i>
Submitter / Operator:	{seq.submitOperator.userName}	{seq.submitTime}
Reviewer:	{seq.reviewOperator.userName}	{seq.reviewTime}
Approver (e-sig. only):	{seq.approveOperator.userName}	{seq.approveTime}

• Calibration Curve



• Data for Injector Linearity Test

Sample Name	Ret. Time min Caffeine UV_VIS_1	Inj. Vol. µl	Area mAU*min Caffeine UV_VIS_1
Injector linearity_1	0,61	5,0	9,515
Injector linearity_2	0,61	10,0	15,897
Injector linearity_3	0,61	20,0	29,991
Injector linearity_4	0,59	40,0	59,299
Injector linearity_5	0,57	90,0	130,623

Cal. Type UV_VIS_1	Number of Points UV_VIS_1	Offset UV_VIS_1	Slope UV_VIS_1
LOff	5	1,852	1,431

	Correlation Coefficient	RSD
	99,99692 %	0,913 %
Limit:	>= 99,90000 %	<= 1,000 %
Result:	ok	ok

Evaluation of Accessories (Following autosampler uses standard 3 instead of standard 2):

ModelNo	Loop Volume	Evaluation*)	Reference value for report
WPS-3000	40	0	False
WPS-3000	20	0	
WPS-3000	50	0	
ACC-3000	20	0	
ACC-3000	50	0	
ACC-3000T	20	0	
ACC-3000T	50	0	
G4226		0	
Accela Autosampler		0	
Accela Open Autosampler		0	
OAS-3000		0	
VH-A10-A	50	0	
VH-A10-A	20	0	
VR-A12-A	50	0	
VR-A12-A	20	0	
VR-A13-A	50	0	
VR-A13-A	20	0	
VR-A14-A	50	0	
VR-A14-A	20	0	
VR-A15-A	50	0	
VR-A15-A	20	0	
VF-A10-A	50	0	
VF-A10-A	20	0	
		0	
		0	
		0	
		0	

		0
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*) ModelNos without loop volume setting uses different evaluation formulas compared to ModelNos with loop volume setting.



