



Performance Qualification

• UV Detector Linearity

• Instruments and Fluidics

Instrument Name	Model	Supplier's Name	Serial Number
Pump	ISO-3100SD	Thermo Scientific	8060011
Autosampler	WPS-3000TSL	Thermo Scientific	3600603
Column Oven	TCC-3000	Thermo Scientific	02240707
UV Detector	DAD-3000RS	Thermo Scientific	8043573
Chromeleon Datasystem	V. 6.80 SR16 Build 5387	Thermo Scientific	0

Accessories	Description
Back Pressure Device	Capillary (L:15 m; ID:0,18 mm)
Sample 2	Caffeine in Water 10 µg/ml
Sample 3	Caffeine in Water 60 µg/ml
Sample 4	Caffeine in Water 140 µg/ml
Sample 5	Caffeine in Water 220 µg/ml
Sample 6	Caffeine in Water 300 µg/ml
Solvent A	Water (HPLC-Grade)

• Additional Information

Customer: Customer's Name
 Operator: Operator's Name
 Operator's Jobtitle
 Execution Date: 2020-mars-30
 Next Qualification: 2020-sept

• Limits, Values and Test Results

	Limit	Observed Value	Result
Detector Lin. - Corr. (UV)	>= 99,900 %	99,987 %	Test passed
Detector Lin. - RSD (UV)	<= 5,000 % RSD	1,699 % RSD	Test passed

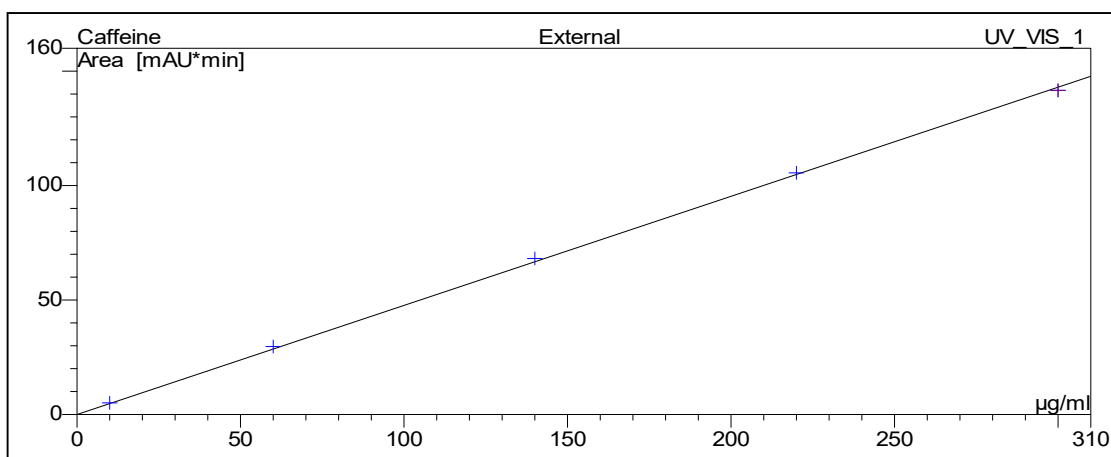
• Signatures

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

• Data for Detector Linearity

Sample Name	Amount µg/ml Caffeine UV_VIS_1	Area mAU*min Caffeine UV_VIS_1
Detector linearity_1	10,0	5,044
Detector linearity_2	60,0	29,663
Detector linearity_3	140,0	68,160
Detector linearity_4	220,0	105,543
Detector linearity_5	300,0	141,600

• Calibration Curve



Cal. Type UV_VIS_1	Number of Points UV_VIS_1	Offset UV_VIS_1	Slope UV_VIS_1
Lin	5	0,000	0,477

	Correlation Coefficient	RSD
	99,987 %	1,699 %
Limit:	>= 99,900 %	<= 5,000 %
Result:	ok	ok



