



DIONEX

Performance Qualification

• UV Detector Linearity

• Instruments and Fluidics

Instrument Name	Model	Supplier's Name	Serial Number
Pump	G1311A	DIONEX	DE40926267
Autosampler	G1329A	DIONEX	DE03013070
Column Oven	Other	DIONEX	not available
UV Detector	G1315A	DIONEX	DE60555545
Chromeleon Datasystem	V. 6.80 SR15 Build 4656 (243203)	DIONEX	1904

Accessories	Name
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: juin-26-20
 Next Qualification: déc-20

• Limits, Values and Test Results

	Limit	Observed Value	Result
Detector Linearity - Corr. (UV)	99,900 %	99,992 %	Test passed
Detector Linearity	5,000 % RSD	1,039 % RSD	Test passed

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Sample Name	Amount ppm Caffeine UV_VIS_1	Area mAU*min Caffeine UV_VIS_1
Detector linearity_1	10,0	1,317
Detector linearity_2	60,0	7,851
Detector linearity_3	140,0	17,557
Detector linearity_4	220,0	28,200
Detector linearity_5	300,0	38,269

Calibration curve for Caffeine. The Y-axis represents Area [mAU*min] and the X-axis represents concentration in ppm. The curve is linear, passing through the following points:

Concentration (ppm)	Area [mAU*min]
0	0.0
10	1.0
60	8.0
140	18.0
220	28.0
300	38.0

<i>Cal.Type</i> <i>UV_VIS_1</i>	<i>Number of Points</i> <i>UV_VIS_1</i>	<i>Offset</i> <i>UV_VIS_1</i>	<i>Slope</i> <i>UV_VIS_1</i>
Lin	5	0,000	0,128

	<i>Correlation Coefficient</i>	<i>RSD</i>
	99,992 %	1,039 %
Limit:	99,900 %	5,000 %
Result:	ok	ok

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Operator's signature // Date