



SHIMADZU

LabSolutions

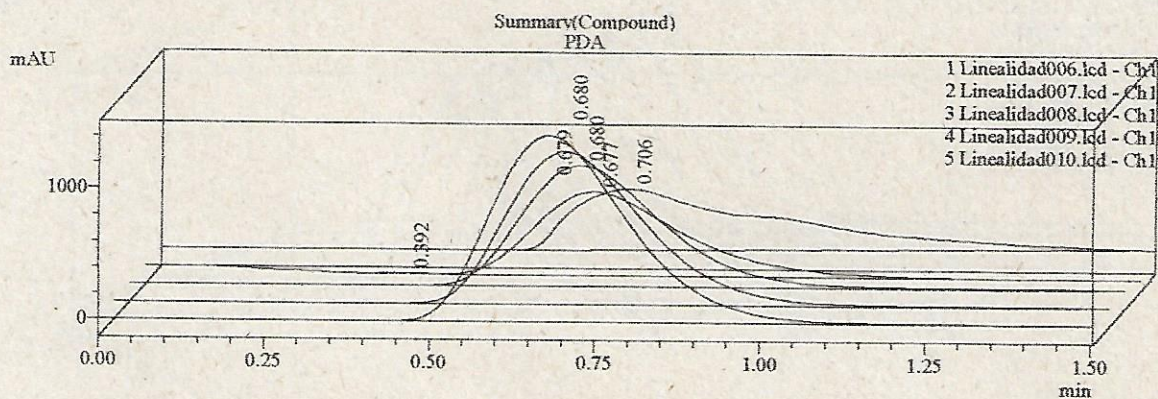
# Analysis Report

## <Sample Information>

Sample Name : Linealidad  
 Sample ID : Linealidad001  
 Data Filename : Linealidad006.lcd  
 Method Filename : OQ-PV.lcm  
 Batch Filename : linealidad-cafeina.lcb  
 Vial # : 1-2  
 Injection Volume : 38 uL  
 Date Acquired : 6/3/2018 15:10:59  
 Date Processed : 9/3/2018 11:58:21

Sample Type : Unknown  
 Acquired by : System Administrator  
 Processed by : System Administrator

## <Chromatogram>



&lt;&lt;PDA&gt;&gt;

ID#1 Compound Name: cafeina

Title	Area	Height
Linealidad006.lcd	10111015	466751
Linealidad007.lcd	9959057	634874
Linealidad008.lcd	13801352	924977
Linealidad009.lcd	17226467	1167453
Linealidad010.lcd	20929069	1426127
Average	14405392	924036
%RSD	32.762	42.056
Maximum	20929069	1426127
Minimum	9959057	466751
Standard Deviation	4719461	388611



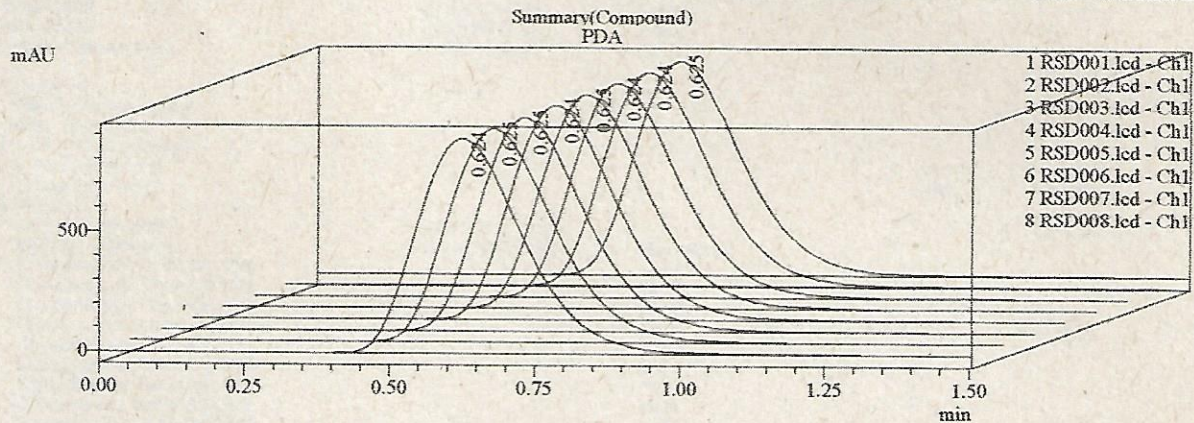
# Analysis Report

## <Sample Information>

Sample Name : RSD  
 Sample ID : RSD001  
 Data Filename : RSD001.lcd  
 Method Filename : OQ-PV.lcm  
 Batch Filename : RSD.lcb  
 Vial # : 1-1  
 Injection Volume : 5 uL  
 Date Acquired : 6/3/2018 15:36:56  
 Date Processed : 6/3/2018 16:00:48

Sample Type : Unknown

Acquired by : System Administrator  
 Processed by : System Administrator



<<PDA>>

ID#1 Compound Name: cafeina

Title	Sample Name	Sample ID	Ret. Time	Area	Height	Conc.
RSD001.lcd	RSD	RSD001	0.625	11543884	887342	0.000
RSD002.lcd	RSD	RSD002	0.624	11544671	887187	0.000
RSD003.lcd	RSD	RSD003	0.624	11549019	889738	0.000
RSD004.lcd	RSD	RSD004	0.625	11550839	887527	0.000
RSD005.lcd	RSD	RSD005	0.624	11543299	889899	0.000
RSD006.lcd	RSD	RSD006	0.625	11537375	885715	0.000
RSD007.lcd	RSD	RSD007	0.625	11534596	886009	0.000
RSD008.lcd	RSD	RSD008	0.624	11538303	892226	0.000
Average			0.625	11542748	888205	0.000
%RSD			0.066	0.049	0.251	0.000
Maximum			0.625	11550839	892226	0.000
Minimum			0.624	11534596	885715	0.000
Standard Deviation			0.000	5672	2225	0.000

## ==== Shimadzu LabSolutions System Check ====

Instrument Name : DESKTOP-5GH7UGT-Instrument1

Date Tested: 7/3/2018 08:44:09  
 Performer: System Administrator  
 System Check Summary: Pass  
 Software Version: 5.92

### <<GENERAL>>

System Name:	LC-2030C 3D+		
Date Checked:	6/3/2018 08:43		
Serial Number:	L21455510235AE		
Unit ID:			
ROM Version:	V3.00		
IP Address:	192.168.200.96		
Subnet Mask:	255.255.255.0		
Default Gateway:			
MAC Address:	00:E0:96:04:54:5A		
Total Operating Time /hrs:	6/3/2018 08:43	23	
ROM Check:	6/3/2018 08:43	Pass	
RAM Check:	6/3/2018 08:43	Pass	
Position Sensor Check:	6/3/2018 08:43	Pass	

### <<PUMP>>

Total Delivery Volume /L:	1			
Mixer Volume /uL:	40			
[Check of Consumables]				
L Seal Delivered /L:	0	<90		OK
R Seal Delivered /L:	0	<90		OK
[Calibration]				
Flow Compensation:	13/11/2017 14:26			
Gradient Calibration:	14/11/2017 18:55	Mixer 40uL		
Compensation Factor A/B 10%		10.57		
Compensation Factor A/B 50%		49.96		
Compensation Factor A/B 90%		90.68		
Compensation Factor A/C 10%		10.50		
Compensation Factor A/C 50%		49.95		
Compensation Factor A/C 90%		90.64		
Compensation Factor A/D 10%		10.50		
Compensation Factor A/D 50%		49.96		
Compensation Factor A/D 90%		90.65		
[Performance Check]				
Flow Rate Accuracy /+-%:	5/3/2018 11:21	(2.0mL)0.20	<2.00	Pass
Pulsation /MPa:	6/3/2018 08:30	0.03	<0.20	Pass
Gradient Accuracy(A,B) /+-%:	6/3/2018 08:30	Mixer 40uL		Pass
(B 10%) /+-%:		0.10	<2.00	
(B 50%) /+-%:		-0.04	<2.00	
(B 90%) /+-%:		0.19	<2.00	
Gradient Accuracy(A,C) /+-%:	6/3/2018 08:30	Mixer 40uL		Pass
(C 10%) /+-%:		0.09	<2.00	
(C 50%) /+-%:		-0.03	<2.00	
(C 90%) /+-%:		0.20	<2.00	
Gradient Accuracy(A,D) /+-%:	6/3/2018 08:30	Mixer 40uL		Pass
(D 10%) /+-%:		0.01	<2.00	
(D 50%) /+-%:		-0.06	<2.00	
(D 90%) /+-%:		0.14	<2.00	
Press Limiter:	6/3/2018 08:30			Pass

### <<AUTO SAMPLER>>

Max Inj. Vol:	100			
Safety Lock:	ON			
[Consumables Check]				
Needle /time:	47	<40000		OK
Needle Seal /time:	47	<40000		OK
HPV Rotor /time:	60	<100000		OK
HPV Stator /time:	60	<100000		OK
LPV Rotor /time:	219	<60000		OK
LPV Stator /time:	219	<120000		OK
Sample Loop /time:	32	<40000		OK
[Calibration]				
Injection Accuracy:	15/11/2017 10:00	1.0018		
Position Adjustment:	13/11/2017 14:37			
[Performance Check]				
Injection Accuracy /+-%:	5/3/2018 11:46	0.2	<2.0	Pass

### <<COLUMN OVEN>>

Column Management Device:	OFF			
[Consumables Check]				
Valve Seal:	NONE			
[Calibration]				
Temperature Compensation1:	13/11/2017 18:39	(25)25.3		
Temperature Compensation2:	13/11/2017 18:39	(60)59.2		
Gas Sensor Compensation:	14/11/2017 08:52	12812		
[Performance Check]				

Temperature Accuracy /+-degC:	13/11/2017 23:42	(40)0.2	<0.8	Pass
Temp. Control Precision /degC:	6/3/2018 08:30	(40)0.02	<0.20	Pass
Leak Sensor Check(Gas)	14/11/2017 09:05			Pass
<b>&lt;&lt;PDA DETECTOR&gt;&gt;</b>				
[Consumables Check]				
D2 Lamp Operating Time /h		23	<2000	Pass
[Calibration]				
Wavelength Calibration:	7/11/2017 11:50			
Absorbance Compensation Factor:	7/11/2017 14:57	0.978		
Stray Light Energy(Narrow)	7/11/2017 14:33	26.7		
Stray Light Background(Narrow)	7/11/2017 14:33	3461.2		
Stray Light Energy(Wide)	7/11/2017 14:33	33.0		
Stray Light Background(Wide)	7/11/2017 14:33	4027.8		
D2 Lamp Exposure Time(Narrow)/ms	192.4			
D2 Lamp Exposure Time(Wide)/ms	26.8			
[Performance Check]				
Slit Check	6/3/2018 08:30			Pass
Slit Switch Time	6/3/2018 08:43	7		
D2 Lamp Energy(Narrow)	6/3/2018 08:30	7.9	>2.5	Pass
D2 Lamp Energy(Wide)	6/3/2018 08:30	7.9	>2.5	Pass
Wavelength Accuracy	6/3/2018 08:30			Pass
Wavelength Accuracy 656nm Narrow	6/3/2018 08:30	0.3(nm)	<1.0(nm)	(Pass)
Wavelength Accuracy 486nm Narrow	6/3/2018 08:30	0.4(nm)	<1.0(nm)	(Pass)
Wavelength Accuracy 242nm Narrow	6/3/2018 08:30	0.3(nm)	<1.0(nm)	(Pass)
Wavelength Accuracy 361nm Narrow	6/3/2018 08:30	0.6(nm)	<1.0(nm)	(Pass)
Wavelength Accuracy 656nm Wide	6/3/2018 08:30	0.3(nm)	<1.0(nm)	(Pass)
Wavelength Accuracy Check Data	(mV)			
652.1(nm)	261	***		
653.1(nm)	332	***		
654.1(nm)	1207	*****		
655.1(nm)	4298	*****		
656.1(nm)	5902	*****		
657.1(nm)	2175	*****		
658.1(nm)	308	***		
659.1(nm)	116	***		
660.1(nm)	84	***		
	(mV)			
482.0(nm)	1235	****		
483.0(nm)	1250	****		
484.0(nm)	1575	*****		
485.0(nm)	2456	*****		
486.0(nm)	3150	*****		
487.0(nm)	2020	*****		
488.0(nm)	1241	****		
489.0(nm)	1100	***		
490.0(nm)	1056	***		
	(mAbs)			
237.5(nm)	112	***		
238.5(nm)	120	***		
239.5(nm)	173	****		
240.5(nm)	328	*****		
241.5(nm)	388	*****		
242.5(nm)	291	*****		
243.5(nm)	286	*****		
244.5(nm)	238	*****		
245.5(nm)	177	*****		
	(mAbs)			
356.8(nm)	183	***		
357.8(nm)	277	****		
358.8(nm)	459	*****		
359.8(nm)	783	*****		
360.8(nm)	1013	*****		
361.8(nm)	761	*****		
362.8(nm)	523	*****		
363.8(nm)	388	*****		
364.8(nm)	303	****		
Noise /mAU:	6/3/2018 08:30	0.0025	<0.0500	Pass
Drift /mAU/hrs:	6/3/2018 08:30	0.21	<2.00	Pass
Absorbance(Standard Filter) /+-%:	7/11/2017 14:58	-0.9	<-3.0	Pass
<b>&lt;&lt;SAMPLE COOLER&gt;&gt;</b>				
[Calibration]				
Temp Compensation/deg:	14/11/2017 10:24	0.6		
[Performance Check]				
Temperature Accuracy /+-degC:	14/11/2017 11:35	0.6	<3.0	Pass
<b>&lt;&lt;OPTION&gt;&gt;</b>				
Option Board:	NONE			
<b>&lt;&lt;LEAK SENSOR&gt;&gt;</b>				
[Threshold Level]				
(Pump):	13/11/2017 16:41	143		
(Sampler(HPV)):	13/11/2017 16:40	137		
(Sampler(LPV)):	13/11/2017 16:41	131		
(Detector):	13/11/2017 16:40	165		
[Performance Check]				

(Pump):	13/11/2017 16:43	Pass
(Sampler(HPV)):	13/11/2017 16:43	Pass
(Sampler(LPV)):	13/11/2017 16:43	Pass
(Detector):	13/11/2017 16:43	Pass

<<USER LOG>>

[Validation Log]	Date Registered	Message	
Validation Log No.1	6/3/2018 08:30	GE-CONC ACCURACY	Pass
Validation Log No.2	6/3/2018 08:30	PRESSURE LIMITER TEST	Pass
Validation Log No.3	6/3/2018 08:30	DRIFT/NOISE	Pass
Validation Log No.4	6/3/2018 08:30	OVEN T FLUCTUATION	Pass
Validation Log No.5	6/3/2018 08:30	FLOW FLUCTUATION	Pass
Validation Log No.6	6/3/2018 08:30	LAMP-ENERGY(D2)	Pass
Validation Log No.7	6/3/2018 08:30	LAMBDA ACCURACY	Pass
Validation Log No.8	5/3/2018 11:46	INJ-VOLUME ACCURACY	Pass
Validation Log No.9	5/3/2018 11:33	FLOW FLUCTUATION	Pass
Validation Log No.10	5/3/2018 11:21	FLOW ACCURACY	Pass

[Operation Log]	Date Registered	Message
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[Error Log]	Date Registered	Message
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[Maintenance Log]	Date Registered	Message
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