



ANALYSIS REPORT

Determination of Nicotine in sbPBS by LC-HRAM-MS isotope dilution technique

Program Name	BSR
Project / Work Package Name	S179800_Pilot_3R4F_RunA1B1_THS2.2_RunA2B2
Responsible Unit	Complex Matrix Analysis
Responsible Author	Rhouma Mounir
QA Check	Q.Dutertre
Calendar Week	CW 10 (2016)
Project Number	S179800
Date	11 th Mar 2016

QC results on March 11th 2016:

Passed: within 85-115% accuracy
Failed: outside 85-115% accuracy
Ratio: NO for <2/3

Nicotine					
Sample Name	n injections	Exp. Conc.	Passed	Failed	Ratio
QC1_dilx1	3	27.18	3		
QC2_dilx1	3	317.15	3		
QC3_dilx1	3	906.15	3		
QC4_dilx1	3	2718.44	3		
Average quality (%):		100.00%	ok		

Results:



DETERMINATION OF NICOTINE IN SBPBS BY LC-HRAM-MS

Doc No: Nicotine: Study Number: S179800

Version N°: 1.1

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Sample- ID	calculated concentration	calculated concentration	Average	STDEV	RSD
	ng/mL	(ng/insert)	(ng/insert)		%
Nico_sham_3R4F_A1_NA_5	N.A	N.A	N.A	N.A	N.A
Nico_sham_3R4F_A1_NA_6	N.A	N.A			
Nico_sham_3R4F_B1_NA_19	N.A	N.A			
Nico_sham_3R4F_B1_NA_20	N.A	N.A			
Nico_3R4F_A1_0.25_1	43412.02	4341.20	5032.49	851.48	17%
Nico_3R4F_A1_0.25_2	44078.16	4407.82			
Nico_3R4F_B1_0.25_15	52208.40	5220.84			
Nico_3R4F_B1_0.25_16	61600.93	6160.09			
Nico_3R4F_A1_0.35_3	79656.89	7965.69	8656.41	691.74	8%
Nico_3R4F_A1_0.35_4	83727.76	8372.78			
Nico_3R4F_B1_0.35_17	86945.29	8694.53			
Nico_3R4F_B1_0.35_18	95926.27	9592.63			
Nico_sham_THS2.2_A2_NA_13	N.A	N.A	N.A	N.A	N.A
Nico_sham_THS2.2_A2_NA_14	N.A	N.A			
Nico_sham_THS2.2_B2_NA_27	N.A	N.A			
Nico_sham_THS2.2_B2_NA_28	N.A	N.A			
Nico_THS2.2_A2_0.5_7	4034.51	403.45	939.27	397.50	42%
Nico_THS2.2_A2_0.5_8	11110.22	1111.02			
Nico_THS2.2_B2_0.5_21	9078.31	907.83			
Nico_THS2.2_B2_0.5_22	13347.73	1334.77			
Nico_THS2.2_A2_0.7_9	32692.10	3269.21	3891.70	751.99	19%
Nico_THS2.2_A2_0.7_10	34127.97	3412.80			
Nico_THS2.2_B2_0.7_23	39560.57	3956.06			
Nico_THS2.2_B2_0.7_24	49287.47	4928.75			
Nico_THS2.2_A2_1_11	80877.77	8087.78	9735.97	1620.89	17%
Nico_THS2.2_A2_1_12	87109.33	8710.93			
Nico_THS2.2_B2_1_25	115929.20	11592.92			
Nico_THS2.2_B2_1_26	105522.57	10552.26			

N.A.: non applicable

N.B.: In yellow, huge deviation found on the batch