



## ANALYSIS REPORT

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

Program Name	BSR
Project / Work Package Name	S179800_MP1_3R4F_RunC1C2_THS2.2_RunD1D2
Responsible Unit	Complex Matrix Analysis
Responsible Author	Rhouma Mounir
QA Check	Q.Dutertre
Calendar Week	CW 11 (2016)
Project Number	S179800
Date	14 <sup>th</sup> Mar 2016

#### QC results on March 14<sup>th</sup> 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_C1_NA_33	N.A	N.A	N.A	N.A	N.A
Nico_sham_3R4F_C1_NA_34	N.A	N.A			
Nico_sham_3R4F_D1_NA_47	N.A	N.A			
Nico_sham_3R4F_D1_NA_48	N.A	N.A			
Nico_3R4F_C1_0.25_29	58978.56	5897.86	5534.84	777.66	14%
Nico_3R4F_C1_0.25_30	44054.73	4405.47			
Nico_3R4F_D1_0.25_43	61560.91	6156.09			
Nico_3R4F_D1_0.25_44	56799.58	5679.96			
Nico_3R4F_C1_0.35_31	103617.96	10361.80	8921.57	1075.40	12%
Nico_3R4F_C1_0.35_32	77843.42	7784.34			
Nico_3R4F_D1_0.35_45	89373.96	8937.40			
Nico_3R4F_D1_0.35_46	86027.64	8602.76			
Nico_sham_THS2.2_C2_NA_41	N.A	N.A	N.A	N.A	N.A
Nico_sham_THS2.2_C2_NA_42	N.A	N.A			
Nico_sham_THS2.2_D2_NA_55	N.A	N.A			
Nico_sham_THS2.2_D2_NA_56	N.A	N.A			
Nico_THS2.2_C2_0.5_35	7091.47	709.15	1456.49	733.96	50%
Nico_THS2.2_C2_0.5_36	11703.87	1170.39			
Nico_THS2.2_D2_0.5_49	15032.51	1503.25			
Nico_THS2.2_D2_0.5_50	24431.69	2443.17			
Nico_THS2.2_C2_0.7_37	47820.00	4782.00	5967.00	1283.47	22%
Nico_THS2.2_C2_0.7_38	51255.50	5125.55			
Nico_THS2.2_D2_0.7_51	63571.63	6357.16			
Nico_THS2.2_D2_0.7_52	76032.70	7603.27			
Nico_THS2.2_C2_1_39	111459.63	11145.96	11412.50	908.77	8%
Nico_THS2.2_C2_1_40	107178.27	10717.83			
Nico_THS2.2_D2_1_53	110381.13	11038.11			
Nico_THS2.2_D2_1_54	127480.97	12748.10			

N.A.: non applicable

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