



ANALYSIS REPORT

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

Program Name	BSR
Project / Work Package Name	S179800
Responsible Unit	Complex Matrix Analysis
Responsible Author	Rhouma Mounir
QA Check	Quentin Dutertre
Calendar Week	CW 23 (2016)
Project Number	S179800-MP3
Date	06 th June 2016

QC results on June 06th 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
QC1	8	27.18	0	8
QC2	8	317.15	8	
QC3	8	906.15	8	
QC4		2718.44	8	
Average quality (%):		75.00%	ok	

Comment: Concentration level of QC1 not relevant for analytical series and therefore not considered as exclusion criteria.



DETERMINATION OF NICOTINE IN SBPBS BY LC-HRAM-MS

Doc No: Nicotine: Study Number: S179800

Version N°: 1.1

Page 2 of 3

Results:

Sample- ID	Calculated Concentration	Calculated Concentration	Average	STDEV	RSD
	ng/mL	(ng/insert)	(ng/insert)		%
Nico_3R4F_A1_0.25_1	45103.64	4510.36	4353.95	686.66	16%
Nico_3R4F_A1_0.25_2	41874.82	4187.48			
Nico_3R4F_B1_0.25_15	34482.56	3448.26			
Nico_3R4F_B1_0.25_16	47387.16	4738.72			
Nico_3R4F_C1_0.25_29	45104.27	4510.43			
Nico_3R4F_C1_0.25_30	46561.22	4656.12			
Nico_3R4F_D1_0.25_43	55943.93	5594.39			
Nico_3R4F_D1_0.25_44	54481.22	5448.12			
Nico_3R4F_E1_0.25_57	36716.96	3671.70			
Nico_3R4F_E1_0.25_58	38043.36	3804.34			
Nico_3R4F_F1_0.25_71	37496.91	3749.69			
Nico_3R4F_F1_0.25_72	39277.62	3927.76			
Nico_3R4F_A1_0.35_3	72554.87	7255.49	7816.24	809.52	10%
Nico_3R4F_A1_0.35_4	67054.64	6705.46			
Nico_3R4F_B1_0.35_17	86474.64	8647.46			
Nico_3R4F_B1_0.35_18	67573.84	6757.38			
Nico_3R4F_C1_0.35_31	81326.42	8132.64			
Nico_3R4F_C1_0.35_32	83416.67	8341.67			
Nico_3R4F_D1_0.35_45	89982.13	8998.21			
Nico_3R4F_D1_0.35_46	90545.07	9054.51			
Nico_3R4F_E1_0.35_59	74671.04	7467.10			
Nico_3R4F_E1_0.35_60	76151.67	7615.17			
Nico_3R4F_F1_0.35_73	75664.71	7566.47			
Nico_3R4F_F1_0.35_74	72533.51	7253.35			
Nico_sham_3R4F_A1_NA_5	575.06	57.51	94.45	57.30	61%
Nico_sham_3R4F_A1_NA_6	407.37	40.74			
Nico_sham_3R4F_B1_NA_19	611.04	61.10			
Nico_sham_3R4F_B1_NA_20	501.01	50.10			
Nico_sham_3R4F_C1_NA_33	756.78	75.68			
Nico_sham_3R4F_C1_NA_34	519.80	51.98			
Nico_sham_3R4F_D1_NA_47	1458.71	145.87			
Nico_sham_3R4F_D1_NA_48	559.40	55.94			
Nico_sham_3R4F_E1_NA_61	1489.23	148.92			
Nico_sham_3R4F_E1_NA_62	1674.53	167.45			
Nico_sham_3R4F_F1_NA_75	2105.70	210.57			
Nico_sham_3R4F_F1_NA_76	674.80	67.48			



DETERMINATION OF NICOTINE IN SBPBS BY LC-HRAM-MS

Doc No: Nicotine: Study Number: S179800

Version N°: 1.1

Page 3 of 3

Sample- ID	Calculated Concentration	Calculated Concentration	Average	STDEV	RSD
	ng/mL	(ng/insert)	(ng/insert)		%
Nico_THS2.2_A2_0.5_7	3048.76	304.88	1365.04	777.40	57%
Nico_THS2.2_A2_0.5_8	11867.64	1186.76			
Nico_THS2.2_B2_0.5_21	5283.98	528.40			
Nico_THS2.2_B2_0.5_22	15135.00	1513.50			
Nico_THS2.2_C2_0.5_35	6643.82	664.38			
Nico_THS2.2_C2_0.5_36	15091.60	1509.16			
Nico_THS2.2_D2_0.5_49	15092.62	1509.26			
Nico_THS2.2_D2_0.5_50	29581.69	2958.17			
Nico_THS2.2_F2_0.5_63	6549.56	654.96			
Nico_THS2.2_F2_0.5_64	17872.84	1787.28			
Nico_THS2.2_F2_0.5_77	23732.13	2373.21			
Nico_THS2.2_F2_0.5_78	13905.29	1390.53			
Nico_THS2.2_A2_0.7_9	32453.10	3245.31	5764.86	1757.21	30%
Nico_THS2.2_A2_0.7_10	38861.83	3886.18			
Nico_THS2.2_B2_0.7_23	61508.30	6150.83			
Nico_THS2.2_B2_0.7_24	49626.50	4962.65			
Nico_THS2.2_C2_0.7_37	40291.37	4029.14			
Nico_THS2.2_C2_0.7_38	50089.63	5008.96			
Nico_THS2.2_D2_0.7_51	76278.17	7627.82			
Nico_THS2.2_D2_0.7_52	85025.17	8502.52			
Nico_THS2.2_F2_0.7_65	50092.33	5009.23			
Nico_THS2.2_F2_0.7_66	55238.37	5523.84			
Nico_THS2.2_F2_0.7_79	84109.63	8410.96			
Nico_THS2.2_F2_0.7_80	68208.93	6820.89			
Nico_THS2.2_A2_1_11	63814.10	6381.41	10502.32	2581.76	25%
Nico_THS2.2_A2_1_12	69825.57	6982.56			
Nico_THS2.2_B2_1_25	95265.87	9526.59			
Nico_THS2.2_B2_1_26	109624.93	10962.49			
Nico_THS2.2_C2_1_39	105087.60	10508.76			
Nico_THS2.2_C2_1_40	109521.60	10952.16			
Nico_THS2.2_D2_1_53	130542.93	13054.29			
Nico_THS2.2_D2_1_54	158790.83	15879.08			
Nico_THS2.2_F2_1_67	97829.57	9782.96			
Nico_THS2.2_F2_1_68	85789.20	8578.92			
Nico_THS2.2_F2_1_81	118332.60	11833.26			
Nico_THS2.2_F2_1_82	115853.00	11585.30			
Nico_sham_THS2.2_A2_NA_13	534.27	53.43	66.18	32.09	48%
Nico_sham_THS2.2_A2_NA_14	372.60	37.26			
Nico_sham_THS2.2_B2_NA_27	735.18	73.52			
Nico_sham_THS2.2_B2_NA_28	393.96	39.40			
Nico_sham_THS2.2_C2_NA_41	884.42	88.44			
Nico_sham_THS2.2_C2_NA_42	355.73	35.57			
Nico_sham_THS2.2_D2_NA_55	1064.73	106.47			
Nico_sham_THS2.2_D2_NA_56	522.79	52.28			
Nico_sham_THS2.2_E2_NA_69	656.63	65.66			
Nico_sham_THS2.2_E2_NA_70	402.28	40.23			
Nico_sham_THS2.2_F2_NA_83	1410.57	141.06			
Nico_sham_THS2.2_F2_NA_84	608.02	60.80			