



## 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	Quentin Dutertre
QA Check	Arno Knorr
Calendar Week	CW 16 (2016)
Project Number	S179800-MP2
Date	17May2016

**QC results on May 17<sup>th</sup> 2016:**

Passed:	within 85-115%	accuracy			
Failed:	outside 85-115%	accuracy			
Ratio:	NO for <2/3				
	Nicotine				
<b>Sample Name</b>	<b>n injections</b>	<b>Exp. Conc.</b>	<b>Passed</b>	<b>Failed</b>	<b>Ratio</b>
QC1_dilx1	7	27.18	0	7	
QC2_dilx1	7	317.15	5	2	
QC3_dilx1	7	906.15	7	0	
QC4_dilx1	7	2718.44	7	0	
	Average quality (%)	67.86%	ok		

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

**Results:**

Sample- ID	Aliquot Concentration	Aliquot Concentration	Average	STDEV	RSD
	ng/mL	(ng/insert)	(ng/insert)		%
Nico_3R4F_A1_0.25_1	50905.6	5090.6	4860.2	780.7	16.1%
Nico_3R4F_A1_0.25_2	47199.5	4720.0			
Nico_3R4F_B1_0.25_15	59201.2	5920.1			
Nico_3R4F_B1_0.25_16	57016.0	5701.6			
Nico_3R4F_C1_0.25_29	42497.6	4249.8			
Nico_3R4F_C1_0.25_30	43862.8	4386.3			
Nico_3R4F_D1_0.25_43	53942.2	5394.2			
Nico_3R4F_D1_0.25_44	53247.4	5324.7			
Nico_3R4F_E1_0.25_57	35097.0	3509.7			
Nico_3R4F_E1_0.25_58	35951.6	3595.2			
Nico_3R4F_F1_0.25_71	53287.1	5328.7			
Nico_3R4F_F1_0.25_72	51017.9	5101.8			



## DETERMINATION OF NICOTINE IN SBPBS BY LC-HRAM-MS

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Version N°: 1.1

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Nico_3R4F_A1_0.35_3	78320.7	7832.1	8831.3	695.4	7.9%
Nico_3R4F_A1_0.35_4	88532.4	8853.2			
Nico_3R4F_B1_0.35_17	78966.4	7896.6			
Nico_3R4F_B1_0.35_18	89905.9	8990.6			
Nico_3R4F_C1_0.35_31	85028.9	8502.9			
Nico_3R4F_C1_0.35_32	96675.0	9667.5			
Nico_3R4F_D1_0.35_45	91788.2	9178.8			
Nico_3R4F_D1_0.35_46	99465.2	9946.5			
Nico_3R4F_E1_0.35_59	88743.8	8874.4			
Nico_3R4F_E1_0.35_60	79106.9	7910.7			
Nico_3R4F_F1_0.35_73	94637.8	9463.8	N.A.	N.A.	N.A.
Nico_3R4F_F1_0.35_74	88589.9	8859.0			
Nico_sham_3R4F_A1_NA_5	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_sham_3R4F_C1_NA_33	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_sham_3R4F_E1_NA_61	N.A.	N.A.	1580.7	714.2	45.2%
Nico_sham_3R4F_E1_NA_62	N.A.	N.A.			
Nico_sham_3R4F_F1_NA_75	N.A.	N.A.			
Nico_sham_3R4F_F1_NA_76	N.A.	N.A.			
Nico_THS2.2_A2_0.5_7	8041.8	804.2			
Nico_THS2.2_A2_0.5_8	15716.4	1571.6			
Nico_THS2.2_B2_0.5_21	14237.4	1423.7			
Nico_THS2.2_B2_0.5_22	24459.6	2446.0			
Nico_THS2.2_C2_0.5_35	5225.2	522.5			
Nico_THS2.2_C2_0.5_36	12904.1	1290.4			
Nico_THS2.2_D2_0.5_49	12692.2	1269.2	5115.1	1429.2	27.9%
Nico_THS2.2_D2_0.5_50	23794.3	2379.4			
Nico_THS2.2_E2_0.5_63	12683.4	1268.3			
Nico_THS2.2_E2_0.5_64	10882.9	1088.3			
Nico_THS2.2_F2_0.5_77	19852.8	1985.3			
Nico_THS2.2_F2_0.5_78	29191.2	2919.1			
Nico_THS2.2_A2_0.7_9	48333.4	4833.3			
Nico_THS2.2_A2_0.7_10	31652.0	3165.2			
Nico_THS2.2_B2_0.7_23	63854.2	6385.4			
Nico_THS2.2_B2_0.7_24	61009.4	6100.9			
Nico_THS2.2_C2_0.7_37	35350.3	3535.0	9636.7	2993.2	31.1%
Nico_THS2.2_C2_0.7_38	40266.7	4026.7			
Nico_THS2.2_D2_0.7_51	60209.5	6021.0			
Nico_THS2.2_D2_0.7_52	68273.6	6827.4			
Nico_THS2.2_E2_0.7_65	35846.4	3584.6			
Nico_THS2.2_E2_0.7_66	37542.5	3754.2			
Nico_THS2.2_F2_0.7_79	63307.4	6330.7			
Nico_THS2.2_F2_0.7_80	68170.8	6817.1			
Nico_THS2.2_A2_1_11	77303.6	7730.4	N.A.	N.A.	N.A.
Nico_THS2.2_A2_1_12	79867.7	7986.8			
Nico_THS2.2_B2_1_25	127958.3	12795.8			
Nico_THS2.2_B2_1_26	N.A.	N.A.			
Nico_THS2.2_C2_1_39	71072.8	7107.3			
Nico_THS2.2_C2_1_40	93456.9	9345.7			
Nico_THS2.2_D2_1_53	117930.0	11793.0			
Nico_THS2.2_D2_1_54	133157.0	13315.7			
Nico_THS2.2_E2_1_67	54538.9	5453.9			
Nico_THS2.2_E2_1_68	61616.9	6161.7			
Nico_THS2.2_F2_1_81	103800.6	10380.1	N.A.	N.A.	N.A.
Nico_THS2.2_F2_1_82	139335.2	13933.5			
Nico_sham_THS2.2_A2_NA_13	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_sham_THS2.2_C2_NA_41	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_sham_THS2.2_E2_NA_69	N.A.	N.A.			
Nico_sham_THS2.2_E2_NA_70	N.A.	N.A.			
Nico_sham_THS2.2_F2_NA_83	N.A.	N.A.			
Nico_sham_THS2.2_F2_NA_84	N.A.	N.A.			

N.A.: non applicable

N.B. the sample Nico\_THS2.2\_B2\_1\_26 was not measured due to insufficient volume delivered