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Nitrosamine detection analysis
for Natura eliquid 0.9% nicotine

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Eurofins lab and/or MediCre Hellas

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AZ: 12-12516

Test-Report

06.03.2012—kmh

Determination of tobacco specific nitrosamines (TSNA) in aroma fluid for e-cigarettes

YOUR ORDER: 27.02.2012
SAMPLE RECEIPT: 27.02.2012
PACKING: 1 glass bottle
MARKING: eliquid NATURA by MediCre

SAMPLE NAME: NATURA MAXBORO 0.9% FlavourArt/Medicre

Analysis: Start: 27.02.2012 End: 05.03.2012

APPLIED METHOD:

Dilution of the sample followed by addition of isotope-labelled internal standards and subsequent analysis by means of LC-MS/MS (in accordance to lab internal method P-74.020)

- 100 µL (= 107 mg) of sample was fortified with approx. 6 ng of isotopically labelled internal standards (d4-NAB, d4-NAT, d4-NNK and d4-NNN, respectively) and filled up to 1 mL with MeOH / 0.1 mol/L ammonium acetate (50/50; v/v); this solution was subjected to LC-MS/MS analysis
- The addition of isotope-labelled standards results in a concentration of d4-TSNA of approx. 0,06 ng/mg aroma fluid and 6 ng/mL extract concentration
- for quantification a linear calibration curve was set up covering a concentration range of 0.25 ng/mL up to 100 ng/mL for NAB, NAT, NNK and NNN, respectively; each calibration point contains the same amount of isotopically labelled internal standards as the sample of interest

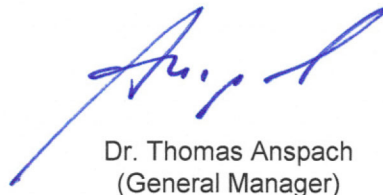
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RESULT OF ANALYSIS:

	Result	Limit of detection	Limit of quantification
NNN (N- Nitrosonornicotine)	not detectable	0.05 ng/mg aroma fluid	0.1 ng/mg aroma fluid
NAT (N-Nitrosoanatabine)	not detectable	0.05 ng/mg aroma fluid	0.1 ng/mg aroma fluid
NAB (N-Nitrosoanabasine)	not detectable	0.05 ng/mg aroma fluid	0.1 ng/mg aroma fluid
NNK (4-(N-methylnitrosamino)-1-(3-pyridyl)-1-butanone)	not detectable	0.05 ng/mg aroma fluid	0.1 ng/mg aroma fluid



 Dr. Thomas Anspach
 (General Manager)



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