

# *DETERMINATION OF FLAVOURING SUBSTANCES AND NICOTINE IN TOBACCO PRODUCTS AND TOBACCO DERIVED PRODUCTS WITH (b) (4)*

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Quality and Environmental  
Management System

Document Title

**Determination of flavouring substances and  
nicotine**

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Contract Analysis APS

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### ***Purpose***

To qualitatively and quantitatively determine flavouring substances and nicotine in tobacco products and Tobacco derived products.

### ***Applies to***

APS

### ***General information***

#### ***Principle of the method***

Wetting the sample matrix under basic/neutral conditions enables the effective extraction of analytes to the organic phase which is then separated by gas chromatography for further identification and quantitation with Mass spectrometry (b) (4). Two internal standards are used to quantitatively determine the analytes, (b) (4) for flavouring substances and (b) (4) for nicotine. Internal standard, solvent and extraction procedure is similar or comparable to that used in the method “Quantitative analysis of alkaloids with (b) (4)”, that are accredited in line with ISO 17025.

The capacity is about (b) (4) single samples/week.

Note: All reference documents and additional information stated “available upon request” are in Swedish. They are available upon request but need to be translated into English first.

### ***Method scope, measurement range and measurement uncertainty***

#### **Scope**

(b) (4)

(b) (4)

*Literature references*

1. (b) (4)

*Internal reference documents (available upon request)*

The description "Control Charts and Control Samples" (b) (4)

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*Risk assessment and safety instructions*

(b) (4)

(b) (4)

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*Analysis*

(b) (4)

(b) (4)

***Documentation***

(b) (4)

***Data***

***Collection and storage of data***

(b) (4)

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*How to find results and raw data*

(b) (4)

*Calculations*

(b) (4)

**Quality assurance**

(b) (4)

(b) (4)

If the response in a sample is higher than the highest standard

(b) (4)

### Reporting of analysis results

The analytes are reported to the client in mg/unit or mg/g (as is) with two significant numbers.

### Revision history

### Person responsible

Director APS

### Validation report

Calculations and all data used in MS Excel are available upon request.

Sample	Sample type	Validation
(b) (4)		

### Specificity


(b) (4)

### Repeatability

(b) (4)

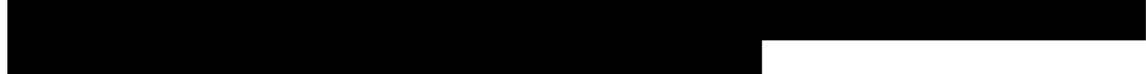


(b) (4)

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*Precision within the laboratory*

Precision within the laboratory has been determined by two persons having analysed (b) (4)

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(b) (4)

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*Accuracy*

(b) (4)

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(b) (4)

(b) (4)

*Limit of Detection (LOD) and Limit of Quantitation (LOQ)*

Appendix 1 (b) (4)

(b) (4)

*Linearity of the standard curve (curve fitting)*

(b) (4)

*Measurement range and measurement uncertainty*

(b) (4)

*Recovery*

(b) (4)

**Transition from a linear to a polynomial standard curve**

(b) (4)

(b) (4)



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### *Conclusion*

(b) (4)

### **Appendices**

(b) (4)

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