

MEASUREMENT OF pH IN TOBACCO, TOBACCO PRODUCTS, FIBRE-BASED MATRICES AND TOBACCO DERIVED PRODUCTS WITH pH ELECTRODE

Table of Contents

Purpose	3
Applies to	3
General information	3
Principle of the method	3
Method scope, measurement range and measurement uncertainty	4
Literature references	4
Internal reference documents	4
Risk assessment	4
Equipment	5
Apparatus and laboratory utensils	5
Chemicals, reagents and solvents	5
Check samples	6
Sample handling	6
Sample storage and preparation	6
Sample amount	6
Analysis	6
Calibration and verification of apparatus	6
Sample stability	6
Analytical procedure	6
Special instructions	7

Storage solution.....	7
Electrolyte solution, inner electrode liquid	7
Documentation	7
Raw data binder.....	7
Log book	7
Data	8
Collection and storage of data.....	8
Calculations	8
Quality assurance	8
Control chart.....	8
Duplicate and triplicate samples	8
Reporting of analysis results	8
Revision history.....	8
Person responsible.....	9
Validation	9
Validation report	9
Specificity.....	10
Repeatability.....	10
Precision within the laboratory	11
Reproducibility/ Inter-laboratory study (reports are available upon request)	11
Robustness.....	12
Measurement range and measurement uncertainty	12
Conclusion.....	13

Purpose

To measure the pH in tobacco, tobacco products, fibre-based matrices and tobacco derived products (also called Purified products).

Applies to

APS

General information

Principle of the method




The method is a slightly modified CORESTA method [3] and FDA method [2].

The modification is as follows: The sample concentration interval and equipment (b) (4)
(b) (4)

The differences between the methods are listed in Table 1.

Table 1. The differences between the methods.

	FDA	Coresta recommended (b) (4)	APS method:
Sample amount			
Stirring			
Calibration			

Number of samples per week is about (b) (4).

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

(b) (4)

Literature references

(b) (4)

Internal reference documents (available upon request)

(b) (4)

Risk assessment

Summarised risk assessment

No risk assessment needs to be conducted.

The work can be performed at an open bench and no risk mitigation measures need to be implemented.

(b) (4)

(b) (4)

Equipment

Apparatus and laboratory utensils

(b) (4)

Chemicals, reagents and solvents

(b) (4)

Check samples

(b) (4)

Sample handling

(b) (4)

Analysis

Calibration and verification of apparatus

(b) (4)

Sample stability

(b) (4)

Analytical procedure

(b) (4)

(b) (4)

Special instructions

(b) (4)

Documentation

Raw data binder

(b) (4)

Log book

(b) (4)

Data

Collection and storage of data

(b) (4)

Calculations

(b) (4)

Quality assurance

(b) (4)

Reporting of analysis results

(b) (4)

Revision history

03/04/2014

(b) (4)

13/10/2014

(b) (4)

15/04/2015

(b) (4)

03/01/2017

(b) (4)

24/11/2017

(b) (4)

29/11/2017

(b) (4)

23/03/2018

(b) (4)

Person responsible

Director APS

Validation

Validation report

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

Sample	Sample type	Validation
(b) (4)		

(b) (4)

Specificity

(b) (4)

Repeatability

(b) (4)

(b) (4)

Precision within the laboratory

(b) (4)

Reproducibility/ Inter-laboratory study (reports are available upon request)

(b) (4)

(b) (4)

Robustness

(b) (4)

Measurement range and measurement uncertainty

(b) (4)

(b) (4)

Conclusion

02/08/2017: (b) (4)