ISO 23905:2020 (E)

Cigarettes — Determination of selected phenolic compounds in cigarette mainstream smoke using HPLC-FLD

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Apparatus

6 Reagents

7 Preparation

7.1 General
7.2 Preparation of solutions — Acetic acid, with a volume fraction of 1 % solution
7.3 Preparation of standards
7.3.1 Primary phenolic compounds stock solutions
7.3.2 Secondary phenolic compounds stock solutions
7.3.3 Phenolic compounds working standards

8 Sampling

9 Tobacco product preparation

10 Sample generation — Smoking of cigarettes

10.1 General
10.2 Smoking machine setup
10.3 Smoking

11 Sample analysis

11.1 Preparation of sample
11.2 Determination
11.2.1 HPLC-FLD operating conditions
11.2.2 Calibration
11.2.3 Calculation

12 Repeatability and reproducibility

12.1 General
12.2 Results of the 2013 collaborative study

13 Report

Annex A (informative) Examples of chromatograms

Page count: 13