

# 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