

ISO 14502-2:2005-03 (E)

Determination of substances characteristic of green and black tea - Part 2: Content of catechins in green tea - Method using high-performance liquid chromatography

Contents		Page
Foreword		iv
1 Scope		1
2 Normative references		1
3 Principle		1
4 Reagents		1
5 Apparatus		5
6 Sampling		5
7 Preparation of test samples		6
8 Procedure		6
8.1 General		6
8.2 Determination of dry matter content		6
8.3 Test portion		6
8.4 Extraction of polyphenols		6
8.5 Dilution		7
8.6 Determination		7
9 Calculation		8
9.1 General		8
9.2 Quantitation using catechin standards		8
9.3 Quantitation using a caffeine standard and catechin Relative Response Factors (RRFs)		9
10 Precision		10
10.1 Interlaboratory test		10
10.2 Repeatability		10
10.3 Reproducibility		10
11 Test report		10
Annex A (informative) Results of interlaboratory tests		11
Annex B (informative) Assessment of purity of standards		13
Annex C (informative) Typical HPLC chromatograms		14
Annex D (informative) The effect of ferric ions on catechin RRFs		18
Annex E (informative) Quantitative comparison -- Use of catechin standards or a caffeine standard in conjunction with catechin RRFs		21
Bibliography		23