ISO/TS 20917:2023-07 (E)

Fertilizers, soil conditioners and beneficial substances - Determination of ammonium citrate, disodium-EDTA soluble phosphorus and potassium by ICP-OES in in organic fertilizers

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Principle 1

5 Reagents 2

6 Apparatus 3

7 Sampling and sample preparation 4

8 Procedure 4
8.1 Extraction of P and K 4
8.2 Instrument conditions 4
8.3 Preparation of standards 5
8.3.1 Standards from reagent salts 5
8.3.2 Standards from commercial stock solutions 5
8.3.3 Calibration and wavelength splitting 7
8.3.4 Analysis 7
8.4 Quality control 7
8.4.1 Reference material 7
8.4.2 Duplicates 7

9 Calculations and expression of results 7
9.1 Calculations 7
9.2 Precision 8
9.2.1 General 8
9.2.2 Repeatability, r 9
9.2.3 Reproducibility, R 9

10 Test report 10

Annex A (informative) Ring test background and results 11

Annex B (informative) Critical factors 24

Bibliography 26