

ISO/TS 19620:2018-01 (E)

Water quality - Determination of arsenic(III) and arsenic(V) species - Method using high performance liquid chromatography (HPLC) with detection by inductively coupled plasma mass spectrometry (ICP-MS) or hydride generation atomic fluorescence spectrometry (HG-AFS)

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Principle	3
5 Interferences	3
6 Apparatus	3
7 Reagents and standards	4
8 Sampling, preservation and storage of samples	6
9 Procedure	6
9.1 HPLC instrument optimization	6
9.2 Calibration	7
9.3 Sample measurement	7
10 Expression of results	7
11 Test report	8
Annex A (normative) Detection using inductively coupled plasma mass spectrometry (ICP-MS)	9
Annex B (normative) Detection using hydride generation atomic fluorescence (HG-AFS)	20
Annex C (informative) Determination of organic arsenic species	27
Annex D (informative) Storage and preservation of arsenic species in water samples	29
Bibliography	40