

ISO 3749:2022-03 (E)

Glass syringes - Determination of extractable tungsten

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Principle		1
5 Reagents		1
6 Apparatus		2
7 Sample preparation		2
7.1 General		2
7.2 Siliconization		2
7.3 Filling		3
7.3.1 General		3
7.3.2 Determination of the filling level		3
7.3.3 Filling of the syringes to be tested		4
8 Extraction by ultrasonics		4
9 Analysis		5
9.1 General		5
9.2 ICP-MS		5
9.3 ICP-OES		5
9.4 Quality control		5
9.4.1 Measurement with ICP-MS or ICP-OES		5
9.4.2 Extraction efficiency		5
9.5 Expression of the results		5
10 Test report		6
Annex A (informative) Spiking of syringes		7