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APPARATUS FOR THE LIMIT TEST FOR ARSENIC

Method A

Glassware set for carrying out the arsenic limit test in accordance with Method A

Normative reference: European Pharmacopoeia 9.4 · Section 2.4.2 · Method A

HLL glassware set 2421A2018

PRODUCT AND APPLICATION

The HLL apparatus for the limit test for arsenic, Method A, Article 2421A2018, is a complete glassware set for carrying out the arsenic limit test. It is used in pharmaceutical and chemical analytical laboratories to determine whether the arsenic content of a sample exceeds the specified limit.

APPLICATION

During the test, arsine is generated from the prepared sample under the prescribed reaction conditions. The gas is passed through the apparatus and collected in a reagent solution. The resulting colour intensity is compared with an arsenic standard solution prepared at the same time.

DESIGN

The design of the glass apparatus is based on Figure 2.4.2.-1 of the stated edition.

METHOD	FLASK	MATERIAL	ARTICLE
Arsenic limit test Method A	100 mL NS 29/32	Clean Save laboratory glass DIN ISO 3585	2421A2018 Glassware set

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CONSTRUCTION, TECHNICAL DATA AND PRODUCT VERSIONS

CONSTRUCTION

1. Reaction flask
The 100 mL flask holds the prepared reaction mixture. It is connected by means of a standard ground-glass joint NS 29/32.

2. Gas delivery and purification tube
The ground-glass component closes the reaction flask, conveys the generated gas out of the flask and accommodates the material specified by the test method for removing interfering gaseous substances.

3. Delivery tube
The glass tube, bent twice at right angles, conveys the gas from the reaction flask to the receiving test tube.

4. Test tube and support base
The free end of the tube is immersed in the reagent solution contained in the test tube. The white support base holds the test tube securely.

PRINCIPLE OF THE LIMIT TEST

1. Prepare the sample in accordance with the applicable test procedure.
2. Prepare the reaction mixture in the 100 mL flask.
3. Generate arsine under the prescribed conditions.
4. Pass the gas through the purification tube into the receiving test tube.
5. Compare the colour intensity of the test solution with the standard solution.

SCOPE OF SUPPLY

Glassware set including test tube and white support base.

TECHNICAL DATA

Feature	Specification
Product designation	Apparatus for the limit test for arsenic, Method A
German designation	Apparatur zur Grenzprüfung auf Arsen nach Methode A
Article No.	2421A2018
Normative reference	European Pharmacopoeia 9.4, Section 2.4.2, Method A
Flask capacity	100 mL
Flask joint	NS 29/32
Material	Clean Save laboratory glass DIN ISO 3585
Delivery form	Glassware set
Documentation	2421A2018-Arsen-Apparatur

RELATED PRODUCT VERSIONS

Independent apparatus for further pharmacopoeias:

L51622010 Japanese Pharmacopoeia
L51622025 Chinese Pharmacopoeia
L50529001 United States Pharmacopeia
2421A Pharmacopoeia 2.4.2 A

SAFETY NOTE

Highly toxic arsenic compounds may be generated during the test. The procedure must be carried out only by qualified personnel under suitable laboratory and safety conditions. The complete test procedure, the safety data sheets and the site-specific protective measures are authoritative.