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ISO 9001
Registered

Quality
Management

DQ 07_00-12

CERTIFICATE OF QUALITY

No. C6 – 2/ 2019

CHARCOAL SAMPLING TUBES

Characteristics	Value
Type of the sorbent tubes	Adsorbent tubes Charcoal 6 x 70
Catalogue No.	ST-01-01
Lot #	0870
Expiration date	02.2024
Design parameters	
Overall length of the glass tube, mm	70 ± 2
Outside diameter, mm	6.0 ± 0.2
Internal diameter, mm	4.0 ± 0.2
Thickness of the glass wall, mm	1.0 ± 0.05
Diameter of the tips, mm	2.0 ± 0.3
Length of the backup sorbent layer, mm	7.5 ± 1.0
Weight of the backup sorbent layer, mg	50 ± 8
Polyurethane foam separator, mm	4.0 ± 0.2
Length of the sorbent layer, mm	14 ± 2
Weight of the sorbent layer, mg	100 ± 15
Glass wool packing, mg	5 ± 2
Characteristics of materials	
Glass tubes	Neutral glass for use in the medicine
Polyurethane foam	60 kg.m ⁻³
Type of glass wool	Silanized
Diameter of the glass wool fibres, µm	16 ± 2
Filling material	Coconut Charcoal
Particle size distribution:	
Less than 300 µm (50 mesh)	5 % maximum
From 300 to 841 µm (50 - 20 mesh)	91 %
Greater than 841 µm (20 mesh)	4 % maximum
Metal clamp	Stainless Steel
Sampling parameters	
Pressure drop at flow rate 150 cc/min, mm H ₂ O	48 ± 6
Adsorption capacity toward toluene, not less than	250 mg
Desorption efficiency by carbon disulphide	98.0 ± 2 %

Produce Manager:

/Eng.-Chem. J. Vasileva/

Sofia, 2019