

Certificate of Analysis

Product: Cotton tips for *swab* sampling
TECHPharm-Lot-No.: 190205
TECHPharm-Sample-Designation: 85000 1 1000
Date of analysis: 05.02.2019 - 26.02.2019

Request: **Suitability of sample taking *swab***
Employing determination of
Total Organic Carbon (TOC),
Total Nitrogen (TN) and UV Absorption

Methods: TOC: Ph. Eur. 2.2.44, 9th Edition 2017
TN: Chemiluminescence after combustion
UV: Ph. Eur. 2.2.25, 9th Edition 2017

Equipment: TOC: Shimadzu TOC-V/-L_{CPH} / ASI-V/-L
TN: Shimadzu TOC-L_{CPH} / ASI-L / TNM-1
UV: Shimadzu UV 2600 PharmaSpec


Expiry date: Original packaging: 31.12.2022
Recommended consumption after
opening: 3 months max.

Lot-No. 190205	Mean value per cotton tip ¹⁾
TOC	29,9 µg
TN	< 5 µg ²⁾
E225 nm, purified water, 10 cm-cuvette	0,031 AU
E270 nm, purified water, 10 cm-cuvette	0,013 AU
E225 nm, methanol, 10 cm-cuvette	0,127 AU
E270 nm, methanol, 10 cm-cuvette	0,030 AU

¹⁾ After pre-cleaning of each cotton tip using 5 ml of purified water or methanol and elution of 10 cotton tips each using 100 ml of purified water or methanol, respectively.

²⁾ Result < limit of determination (5 µg per cotton tip)

Bruchsal, 28.02.2019


Arno Bayerl, Food Chemist
Head of Laboratory Cleaning Validation and Hygiene