

## Certificate of Analysis

**Product:** Cotton tips for *swab* sampling

TECHPharm-Lot-No.: 180116

TECHPharm-Sample-Designation: 77777 1 144

Date of analysis: 16.01.2018 - 24.01.2018

**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, 9<sup>th</sup> Edition 2017  
TN: Chemiluminescence after combustion  
UV: Ph. Eur. 2.2.25, 9<sup>th</sup> Edition 2017

Equipment: TOC: Shimadzu TOC-L<sub>CPH</sub> / ASI-L  
TN: Shimadzu TOC-L<sub>CPH</sub> / ASI-L / TNM-1  
UV: Shimadzu UV 2600 PharmaSpec


Expiry date: Original packaging: 31.12.2021  
Recommended consumption after  
opening: 3 months max.

Lot-No. 180116	Mean value per cotton tip <sup>1)</sup>
TOC	14,1 µg
TN	< 5 µg
E225 nm, purified water, 10 cm-cuvette	0,017 AU
E270 nm, purified water, 10 cm-cuvette	0,009 AU
E225 nm, methanol, 10 cm-cuvette	0,027 AU
E270 nm, methanol, 10 cm-cuvette	0,010 AU

<sup>1)</sup> 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.

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

Bruchsal, 02.03.2018

  
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