

Quick guide to our phyproof[®] Reference Substances Certificate of Analysis

Certificate of analysis

(1)

Report-No.: Batch: Article: Quantity:

104935443 - 99 002 15605 80003 Tomatidine (supplied as HCI salt) 3 x 500 mg

Test	Unit	Limit	Testresult
Appearance, SOP 100005		powder	Conform
Color, SOP 100006		white	Conform
Solubility, SOP 105001: DMSO		sparingly soluble	Conform Conform
Identification (HPLC-HR/MS), SOP 204125		Conform	Conform
ldentification (IR-spectroscopy, Ph.Eur. 9.0, 2.2.24)/USP 42 NF 37 <197>), SOP 206000		Conform	Conform
ldentification (1H-NMR-spectroscopy), (outsourced), SOP 206010	<u> </u>	Conform	Conform
Identification (13C-NMR-spectroscopy), (outsourced), SOP 206020		Conform	Conform
Water content, (micro determination, coulometric titration), Ph.Eur. 10.0., 2.5.32, SOP 304291: Mean value	%		< 0.3
Chloride (argentometric titration), No. 400897 (double analysis, outsourced): Mean value	%		7.65
Tomatidine (HPLC), method 1 (% AU), SOP 401219	%	>= 95.00	98.84
Residual solvents, (headspace-GC), SOP 805765: Residual solvents	%		< 0.05
Inorganic impurities, (ICP-MS), for reference substances, SOP 811701:			
Sodium	%		< 0.1
Potassium	%		< 0.1
Magnesium Calcium	%		<0.1 (3)
Aluminium	%		< 0.1
Phosphorus	%		< 0.1
Sulfur	%		< 1.0
Content* (regarding the counterion as an inorganic impurity. For detailed information please see the attached data sheet!) SOP 890002	%		91

impurity. For detailed information please the attached data sheet!), SOP 890002

Assessment: The above mentioned reference substance meets the specification.

5)

(6)

*The absolute content is calculated considering the chromatographic purity, and if available, the content of water, residual solvents and inorganic impurities according to the following formula: Content = (100% - water content (%) - residual solvents (%) - inorganic impurities (%)) x chromatographic purity (%) / 100.

The chromatographic purity is checked regularly: the last analysis has been performed in April 2020.

The reference substance cannot be documented with an expiry date. The pack is closed an is re-commended to be stored as indicated. The unopened product is guaranteed to fulfill the speci-fications of this analytical report for a period of 60 months. Once opened we can no longer guarantee the stability of the material.

Vestenbergsgreuth, 16.04.20

Webshop

Prices, MSDS, exemplary CoA for download, FAQ and much more is available on our website. Order phyproof® Reference Substances with just a few clicks. Please visit:

https://phyproof.phytolab.com/en/

PhytoLab

(1)

Report number:

Every certificate has a unique report number. This number can also be found on our labels, so the corresponding certificate can easily be identified. This guarantees complete traceabilitv

Batch number:

Please note: Our worldwide distribution partner Sigma-Aldrich / Millipore-Sigma uses S-digit batch numbers. You can download our CoA from their website (www.sigmaaldrich.com). Just visit the respective product page and enter the batch number under "Certificate of Analysis" or "Documents".

Quantity:

We give the exact initial weight to two decimal places on the inner label of the vial to enable the production of stock solutions. Only the nominal order quantity is indicated on the outer label and the certificate of analysis.

(2)

Supplementary data / Spectra:

Spectra (e.g. for IR, NMR, UV, MS) for all identification tests as stated on the CoA are provided upon request and with your order.

(3)

LOQ:

A value below the limit of quantification (LOQ) is indicated with a less than symbol (<). The result is considered to be zero with regard to the calculation of the absolute content (compared formula helps). (compare formula below).

(4)

Absolute content:

The absolute content is given on the certifica-te when the reference substance is certified as a primary reference substance. If the reference substance is provided as a salt the counter ion is treated as an impurity and deducted from the absolute content (compare formule below) formula below).



Calculation of absolute content:

The absolute content in this example is The absolute content in this example is calculated as follows: (100 % - 0 % (water) - 0 % (residual solvents) - 7.65 % (inorganic impurities)) x 98.84 %(chromatographic purity)/ 100 = 91 %(absolute content is rounded and given with no decimal places).



Manufacturing date / Expiry date:

The date of the last analysis equals the manufacturing date. The given stability period starts from the month the CoA was issued. In this case this corresponds to an expiry date of April 2025 April 2025.

