

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product tri-Sodium citrate dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

Batch 20062901

SO0199

Quality release date 31/07/2019

Expiry date 07/2024

Analysis	Batch value	Specifications
Assay (titration with HClO ₄ , on dried sample)	100,32 %	99,0 - 100,5
Identification	passes test	passes test
Appearance of solution	clear and colourless	clear and colourless
Acidity or alkalinity	passes test	passes test
Chlorides (Cl)	< 0,0030 %	≤ 0,005
Oxalates (C ₂ O ₄)	< 0,0010 %	≤ 0,03
Sulfates (SO ₄)	< 0,0030 %	≤ 0,015
Tartrates (C ₄ O ₆)	passes test	passes test
Heavy metals (as Pb)	< 0,0001 %	≤ 0,001
Substances darkened by H ₂ SO ₄	passes test	passes test
Water (K.F.)	12,38 %	11,0 - 13,0
Loss on drying (180°C during 18h)	12,28 %	10,0 - 13,0

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Results marked with # are out of specifications.
This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

M. Canet
Laboratory Manager