

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

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

Batch 19051101

SO0199

Quality release date 10/12/2018

Expiry date 12/2023

Analysis	Batch value	Specifications
Assay (titration with HClO ₄ , on dried sample)	99,82 %	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)	< 0,0005 %	≤ 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.)	11,96 %	11 - 13
Loss on drying (180°C during 18h)	11,98 %	10 - 13

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