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CERTIFICATE OF GRAVIMETRIC PREPARATION

PRODUCT: TOC Standard 50mg/L C as KHP
PRODUCT NO: RTOCK13
LOT NO: RTOCK1315G1
DATE OF MANUFACTURE: 28th July 2015
EXPIRY DATE: 28th July 2016
SPECIFICATION: 0.01061 – 0.01065 % wt/wt KHP
CERTIFIED VALUE: 0.010630 +/- 0.00002 % wt/wt KHP

Equivalent TOC value is 50.0 ppm.

The uncertainty reported above was calculated in compliance with the Guide to the Expression of Uncertainty in Measurement (GUM), JCGM 100:2008 and includes uncertainty contributions due to the purity assessment of the raw material, the gravimetric preparation of the solution, the homogeneity of the filled batch.

TRACEABILITY IN THE PRODUCTION OF THIS STANDARD:

This product was manufactured and certified in accordance with the requirements of ISO Guide 34 and ISO Guide 35. It was prepared gravimetrically on a weight/weight basis. Both solute and solvent were weighed on a balance calibrated by Reagecon engineers using OIML traceable weights. Reagecon holds ISO 17025 accreditation for calibration of non-automatic weighing machines (265C). The resulting Balance Certificate of Calibration was issued in accordance with the requirements of ISO/IEC 17025. The balance was calibrated under monitored environmental conditions and atmospheric pressure. Tests were performed for capacity, readability, repeatability, eccentricity and linearity. The equipment used is detailed as follows.

BALANCE ID No.: RRD089 **CALIBRATION DATE OF BALANCE:** 14th July 2015
BALANCE ID No.: RRD077 **CALIBRATION DATE OF BALANCE:** 25th June 2015

CALIBRATION AUTHORITY OF BALANCES: Reagecon Diagnostics Ltd, ISO17025 Accreditation No. 265C

The certified concentration was verified by the analysis using a high performance calibrated, TOC instrument according to test method TPTOC.

Approved By: R&D Chemist

Date: 29th July 2015

This certificate must not be reproduced except in full.