ANALYTIKA®, spol. s r.o.

Khodlova 1297/47, CZ-193 00 Praha 9 – Horní Počernice

www.analytika.net



DENTIFICATION SHEET

Aqueous calibration solution ASTASOL®

ASTASOL® INT-MIX6

This Identification sheet is designed in accordance with ISO Guide 31

Category: Traced reference material

Analytes: Bi, In, ⁶Li, Sc, Tb, Y

Product code: INT-MIX6

Starting primary compounds and theirs purities (%):

Bi 99.999; In 99.999; ⁶Li 99.99; Sc₂O₃ 99.99; Tb₄O₇ 99.998; Y₂O₃ 99.99

Matrix:

5% HNO₃ (v/v), prepared from sub boil distilled HNO₃ (ANALPURE[®]) and ultrapure demineralized water (resistivity $\geq 18M\Omega$.cm, 0.22 μ m filtered)

Assigned concentration value and expanded uncertainty (k = 2) at 20°C

Bi, In, 6 Li, Sc, Tb, Y $100.0 \pm 0.5 \text{ mg/l}$

Specification:

Batch No.: 1001

The date of production: 21.04.2022

Expiry date: 21.04.2024

Intended use:

As a calibrator of analytical methods analysing aqueous solutions such as atomic spectrometry (AAS, AES, ICP-OES, ICP-MS), molecular absorption and selected electroanalytical methods.

Characterization and traceability:

This RM has an assigned value of concentration and uncertainty on the basis of gravimetric preparation. Traceability is realized with CRM AN 9008(1N), AN 9026(1N), AN 9030(1N), AN 9052(1N), AN 9058(1N) and AN 9067(1N) through a short unbroken chain of calibrations (AAS, AES, ICP-OES) or comparisons (primary analytical methods). All mentioned CRM AN are traceable to the corresponding SRMs NIST.

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Trace impurities in bottled solution

Max. 0.2 mg/l (total)

Homogeneity and stability:

It has been demonstrated that this RM is homogeneous and its stability is guaranteed during the whole shelf life provided the solution it kept under conditions presented below.

Storing and instruction for use:

This RM has to be stored in the original closed bottle between $5-30\,^{\circ}\text{C}$. The producer guarantees a declared expiration time provided the RM is properly stored and professionally handled. The temperature of the solution must be $20\pm0.5\,^{\circ}\text{C}$ before every use. It is important to cover the screw cap and the neck of the bottle with a parafilm layer after each opening to prevent vapour phase losses. It is not recommended to use the standard solution when the bottle contains less than 10 % of the solution. Therefore, in case of nontransparent bottle, it is important to indicate the amount of the solution used,e.g. on the label. Do not pippette from the bottle. Do not return removed aliquots to bottle.

Producer:

ANALYTIKA®, spol. s r.o.

Department of reference materials

Ke Klíčovu 2a/816

190 00 Prague 9 – Vysočany

Czech Republic

sales@analytika.net

www.analytika.net

Phone/Fax: +420 286 589 616

Quality management systems of company ANALYTIKA®, spol. s r.o.:

The Producer has a certified quality management system ČSN EN ISO 9001: 2016.

The Producer meets the requirements of ČSN EN ISO 17034:2017: General requirements for the competence of reference material producers.

Head of production department:

Petránhova

Mgr. Mirka Petránková

Date of the first issue of IS: 21.04.2022 Revision of IS:

IS revision date: Version of IS: 01

Verze IL / Version of the IS: 01

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