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1. COMPANY INFORMATIONS

Labsert is an international manufacturer of reference standard materials. All tests and analysis are carried out by ISO/IEC 17025 accredited Labsert's sub-contracted business partner Duzen Norwest Lab. (Turkak Accreditation No: AB-0375-T) and/or Labsert laboratory. Certificate of analysis is presented according to ISO 17034 requirements (Tur Cert. No: 20180718172822). Labsert is registered in reference material producer database (REMBIS) in TURKAK.

2. DESCRIPTION OF CERTIFIED REFERENCE MATERIAL (CRM)

Product Name	Total Kjeldahl Nitrogen Reference Standard		
Catalog Code	TKN .1000.W		
Lot Number	TKN1000- xxxxxx		
Value of Analyte	1000 mg/l		
Starting Material 1 / Purity	Glycine / 99.99%		
Starting Material 2 / Purity	NH4H2PO4 / 99.9%		

3. CALCULATED VALUE / UNCERTAINTY

NIST Traceability	Matrix	Calculated Value	Uncertainty ±	Calculation
Clause 5	Water	1000 mg/l	6,0 mg/l	Result from calculation

4. PREPARATION AND CERTIFICATION INFORMATIONS

The certified value is obtained by gravimetric and volumetric preparations from the assign value which is confirmed against certified reference materials traceable to SI of NIST (National Institute of Standards and Technology (when available)), using one or two instrumental methods by ISO 17025 accredited laboratory which is sub-contracted business partner of Labsert. The reported expanded uncertainty of measurement is calculated for a 95% confidence interval using a coverage factor of k = 2.

5. TRACEABILITY STATEMENT

The measurement results are traceable to SI. All analytical balances are calibrated yearly by ISO 17025 accredited metrology service (TURKAK accreditation no: AB-0076-K) and are verified monthly by an in-house method using NIST traceable analytical weights (NIST Test No: 684/289871-17). Analytical balances are also weekly checked by using Class A laboratory glassware.

6. Stability, Storage and Handling

For the guaranteed stability, keep it in its original unopened HDPE / LDPE bottle. Store at 4 - 6 °C. Avoid direct sunlight. Do not pipette from the container. Do not return portions removed from pipetting to container.

7. HOMOGENEITY

This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. To achive the sufficient homogeneity, please mix the sample slowly by inversion while it is capped.

8. EXPIRATION INFORMATIONS

The expiration date is guaranteed to be valid when this reference material is kept in original unopened bottle. To monitor the transpiration of the material, bottle should be weighed before opening and after using.

Certification Date: 29.04.2019

Expiration Time: 12 Months

Expiration Date: 05.2020

9. NAMES OF CERTIFYING OFFICERS

Prepared By:

Buket POLAT (Chemical Engineer)

Quality System Officer

Controled By:

Koray CENGIZ (Chemist M.Sc.)

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