



## Certificate of Analysis

### Secondary Reference Standard NIST traceable

### Conductivity Solution ~ 100.0 $\mu\text{S}/\text{cm}$ @ 25° C

|                    |                         |                              |            |
|--------------------|-------------------------|------------------------------|------------|
| Molecular Formula: | NA                      | Lot No.:                     | C-012.1    |
| Molecular Weight:  | NA                      | Cat No.:                     | NIST -039  |
| Packing :          | 500 mL                  | Dt. of Issue of Certificate: | 10/05/2026 |
| CAS No.:           | NA                      | Dt. of Mfr:                  | May 2026   |
| Traceability:      | To NIST <i>SRM 999c</i> | Exp. Dt.(Refer Note below):  | April 2028 |

TABLE :1 Certified Value

| Measurand / Constituent | Certified Value                   | Expanded Uncertainty (K=2)          |
|-------------------------|-----------------------------------|-------------------------------------|
| Conductivity (at 25 °C) | 100.0 ( $\mu\text{S}/\text{cm}$ ) | $\pm 2$ ( $\mu\text{S}/\text{cm}$ ) |

- This conductivity Standard Solution is prepared by using ISO 17034:2016 certified RM & comparing with Conductivity solution prepared from NIST Standard.*

**Metrological Traceability:** The test result is traceable to Standard Reference Material of National Institute of Standards and Technology (USA), SRM 999c potassium chloride.

**Conductivity Substance:** *Potassium Chloride*

TABLE :2 Temperature dependence information

| Temperature (° C) | Conductivity ( $\mu\text{S}/\text{cm}$ ) | Temperature (° C) | Conductivity ( $\mu\text{S}/\text{cm}$ ) |
|-------------------|------------------------------------------|-------------------|------------------------------------------|
| 5                 | 98.0                                     | 30                | 101.2                                    |
| 10                | 99.2                                     | 35                | 101.3                                    |
| 15                | 99.3                                     | 40                | 101.4                                    |
| 20                | 99.5                                     | 50                | 103.0                                    |

**Accreditation:** Sabiha Research And Development Ltd. is accredited to ISO 17025:2017 by the National Accreditation board and testing calibration laboratory under scope for the test method, TPPHB, used to generate the above result. This accreditation deems Sabiha Research competent on a quality systems level and technical level to perform the tests on the scope of accreditation. Sabiha Research has the quality management system in place to ensure that each individual test result generated using TPPHB is technically valid and is supported by appropriate uncertainty measurements.

**Intended use:** This reference material is intended for use in aqueous solution as a calibration standard for the determination of the conductivity sample.

- Do not freeze, store at room temperature, keep container tightly closed. Do not put back unused solution into original bottle. For laboratory and industrial use only not for Human/Animal consumption*

**NOTE:** Expiry Shall not exceed 12 months from date of opening within the shelf life period.

QC Supervisor

Sign \_\_\_\_\_