novasina

GUIDE

SAL-T



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General remarks

SAL-T is a unique Novasina re-usable verification and calibration solution.
SAL-T is designed for easy-to-use and long-term usability. Verification and calibration are typically defined intervals according to the user's SOPs. We recommend to perform verification / calibration weekly or monthly depending on whether measurements are taken daily or weekly to assure highest measurment reliability and compliance.

SAL-T standards can last for up to 3 years if stored properly. Always keep them sealed tightly in their original containers at room temperature to prevent moisture exchange.

SAL-T standards are additionally available with UKAS certification, please contact our partner Novatron for this service: www.novatron.co.uk

Handling

Gently shake the standard before use to ensure uniform distribution of the salt slurry.

Hold the standard by its sides and avoid damaging the RFID chip on the bottom of the standard, as it's crucial for instrument recognition. (LabMaster-aw neo only)

Check for signs of degradation, such as excessive liquid or hardened crystals.

Contact your Novasina partner service technician to replace the standard if it no longer reads within tolerance.

Replace them at the latest when the maximum in-use date (3 years) has been reached! The maximum in-use date defines the latest permissible date by which the salt standard must be replaced during routine laboratory use; under the recommended handling and storage conditions, the salt standard is guaranteed for a shelf life of up to three years, after which replacement is recommended as a risk-based preventive measure.

Storage

Always store SAL-T standards in their original, sealed containers with the lid tightly closed to prevent moisture exchange with the environment.

Ensure that only one SAL-T tablet is stored in each container to avoid cross-contamination and preserve accuracy.

Keep them at room temperature (around 20-25°C) and avoid exposure to direct sunlight, extreme heat, or cold, which can affect the standard's lifetime.

Store the standards in a dry, stable environment to maximize shelf life and reliability.

Storage



Standards for the water activity of saturated salt solutions in tablets.

- Calibration/Verification time: approx. 40 minutes per standard
- Accuracy: 0.3 rH% which is +/-0.003aw

Scope of supply:

- SAL-T including RFID chip for standard recognition on the LabMaster-aw neo

Compatible Systems:

- LabMaster-aw neo with automatic standard recognition by RFID
- LabTouch-aw, LabSwift-aw: Stability setting to 10 min
- Labstart-aw: Calibration after a 30 to 40-minute waiting period

Humidity values	Name	Calibration	Verification
4% rH	SAL-T 4	✓	✓
6% rH	SAL-T 6	✓	✓
11% rH	SAL-T 11	✓	✓
23% rH	SAL-T 23	×	✓
33% rH	SAL-T 33	✓	✓
43% rH	SAL-T 43	×	✓
53% rH	SAL-T 53	✓	✓
58% rH	SAL-T 58	✓	✓
75% rH	SAL-T 75	✓	✓
84% rH	SAL-T 84	✓	✓
90% rH	SAL-T 90	✓	✓
97% rH	SAL-T 97	✓	✓
100% rH	SAL-T 100	✓	✓

Visual Inspection Guide



✓

Salt in good condition

Salt crystals and liquid are visible. No leaks, cracks or punctures are evident. RFID Chip intact.



✗

Liquefied salt

Only liquid, no salt crystals are visible

e.g. SAL-T 11,33,43

Standards with water activity **below** room humidity can **liquefy**





✗

Dried out salt

Mainly salt crystals are visible, no liquid

Standards with water activity **above** room humidity can **dry out**

e.g. SAL-T 75,84,97







✗

Leaking salt

Punctured vapor membrane or leakage from the rim. If you find droplets in the container, wipe them off, return the SAL-T standard to the container, and shake it. If water droplets reappear, the standard is defective.



For more information, please refer to our video here, or scan this QR-Code

Get in touch and learn more about your specific application and its possibilities!

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