* The original certificate is printed on forgery-resistant paper with the HCT hologram on the top, and is marked as a copy when copying the original.

REFERENCE MATERIALS CERTIFICATE

74, Seoicheon-ro 578b eon-gil, Majang-myeon, Iche on-si, Gyeonggi-do, Rep.of KORE TEL : +82-31-645-6900, FAX : +82-31-645-6969

: HCT-CRM-P0200

: Mean Diameter

: PSL 00200.005

: 15 ml / 1 bottle

Certificate No : HCTCRM-2022-0002

1. Reference Materials Information

- Reference Materials Code
- Reference Materials Name
- Certification Characteristics
- Lot Number
- Bottle Type
- Volume
- Application

: Particle counter calibration and performance test, moisture counter evaluation, other object tests

2. Certification Method

ISO 15900:2020 (Determination of Particle Size Distribution-Differential Electrical Mobility Analysis for Aerosol Particles)

: Polystyrene Dropping Bottle

: 200 nm Polystyrene Sphere Latex

3. Traceability

The above reference materials were measured using certified reference materials(CRM, No.111-21671) with traceability from METAS and the following measuring instruments with traceability from national standards organizat

List of used standards/specifications

Description	Manufacturer / Model	Serial Number	Due date of Calibration	Calibration Lab
ELECTROSTATIC CLASSIFIER	TSI/3082	3082021612001	2023/07/21	NPL
LONG DIFFERENTIAL MOBILITY ANALYZER	TSI/3081A	3081A1606001	2023/07/21	NPL
CONDENSATION PARTICLE COUNTER	TSI/3772	3772162202	2023/05/12	HCT Co., Ltd.

4. Certification Result

Reference Materials Name	Certification Date	Expiration Date	Certified Diameter	Uncertainty
200 nm Polystyrene Sphere Latex	2022.09.26	2024.06.27	199.4 nm	16.7 nm

(approximate 95% confidence level, k = 2.78)

5. How to use

: Refer to "Reference meterials Information sheet" on page 2

Approved bY		
Title	Technical Manager	
Name	김은희	(signature)

The above certificate is the result of the standard material certified by the Korea Accreditation Organization (KOLAS) by KS A ISO 17034. **2022. 09. 26**

Accredited by KOLAS, Republic of KOREA

President, HCT Co., Ltd.

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