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-P0050

: Mean Diameter : PSL 0050.006

: 15 ml / 1 bottle

Certificate No: HCTCRM-2022-0004

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

: 50 nm Polystyrene Sphere Latex

3. Traceability

The above reference materials were measured using certified reference materials(CRM, No.111-21665) 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

5. How to use

Reference Materials Name	Certification Date	Expiration Date	Certified Diameter	Uncertainty
50 nm Polystyrene Sphere Latex	2022.12.12	2024.09.04	48.0 nm	4.4 nm

(approximate 95% confidence level, k = 2)

: 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.

Accredited by KOLAS, Republic of KOREA

President, HCT Co., Ltd.

2022.12.12



F-RP-19-001(Rev.01)

