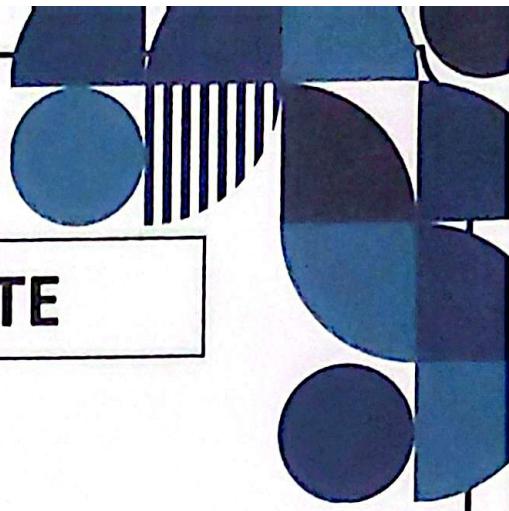




PT. Esco Utama
Taman Tekno Blok H8 No 10, Setu,
Tangerang Selatan 15314
Telp : 021-40620850/40620853



TESTING CERTIFICATE

Certificate Number: CERT-L 00239/24

OWNER IDENTITY

Owner : BPOM Tarakan

Address : Jl. Yos Sudarso RT.011 Karang Balik, Tarakan Barat, Kalimantan Utara

INSTRUMENT IDENTIFICATION

Name : Laminar Air Flow

Manufacture : ESCO

Type/ Model : PCR-3A1

Serial Number : 2008-35397

METHOD OF TESTING : SOP-EU-SVC-10-A

DATE OF TESTING : 14-Aug-2024

RECOMMENDED DUE DATE : 14-Aug-2025

REFERENCE STANDARD USED FOR RECALIBRATION

<u>Test Equipment</u>	<u>Traceability</u>	<u>Serial Number</u>	<u>Cal Due Date</u>
Photometer	N/A	21950	25-Mar-25
Anemometer	LK-232-IDN	9565P1643030	26-Oct-24
UV Meter	LK-070-IDN	S.043171	23-Jul-24
Multimeter	LK-157-IDN	17115010780	19-Feb-25
Particle Counter	N/A	93061226001	29-Jul-25
Light Meter	LK-032-IDN	S.028534	26-Feb-25
Sound Meter	LK-264-IDN	I.471948	24-Jul-24

Reviewed/ Approved by

PT. ESCO UTAMA

Agus Susanto

Date of Issue: 20-Aug-2024

This certificate of testing shall not be reproduced except in full without written approval
of PT. Esco Utama.

This certificate is valid when sealed by PT Esco Utama

Certificate Number: CERT-L 00239/24

Name : Laminar Air Flow
Type/ Model : PCR-3A1
Serial Number : 2008-35397
Testing Date : 14-Aug-2024

TESTING RESULT

No.	Type of Test	Acceptance Level	Results	Remarks
1	Air Velocity Test	Average velocity: 0.275-0.325 m/s	Pass	Average Velocity: <u>0.30</u> m/s
2	Particle Count Test	Maximum concentration limit is 10.200 (particle/m ³) at 0.3µm and 3520 (particle/m ³) at 0.5µm and greater accordance to ISO 14644.1 (Class 5).	Pass	0.3 µm : <u>0</u> 0.5 µm : <u>0</u>
3	Filter PAO Leak Test	Maximum particle concentration of 0.01% for filter.	Pass	Downflow: <u>0.0017</u> %
4.	Air Visualization Test	Smoke laminar flow out, no turbulence, no billowing	Pass	Compliant
5	Light Intensity Test	Must be > 650 Lux or manufacturer's spec	Pass	Average Intensity: <u>959</u> Lux
6	Noise Level Test	Must be < 67 dBA	Pass	<u>54</u> dBA
7	UV Light Intensity Test	Must be > 40uW/cm ²	Pass	Average Intensity: <u>102</u> uW/ cm ²
Overall Performance			Pass	Certified

Decisions on testing results use the following rules :

- "Pass" if tolerance acceptance level criteria
- "Fail" if not tolerance acceptance level criteria