

# KAKEN

## Kaken Test Center GENERAL INCORPORATED FOUNDATION

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Kaken Test Center is formerly named as "Japan Synthetic Textile Inspection Institute Foundation(JSTIIF)".

No.1/2

Certificate No. : OS-19-066358(1)

Date : January 17, 2020

### TEST CERTIFICATE

Requested : ENDEAVOUR LAB Co., Ltd.  
Test Sample : ENLAB 1 Sample  
Test Item : Evaluation of the Filtration Efficiency of Sanitary Face Mask Materials,  
Using Pollen grains  
Received : January 14, 2020

**This is to certify that the results of laboratory test applied on the sample are as follows:**

#### 1. Test Results

Test Item		Test Results
Filtration Efficiency of Pollen grains (%)	1	94.0
	2	94.4
	3	94.0
	Average	94.1

Kaken Test Center General Incorporated Foundation  
Osaka Laboratories

Inspector : T. Oida  
T. Oida

(To be continued on No.2/2)

Kaken Test Center  
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Certificate No. : OS-19-066358(2E)

Date : **January 17, 2020**

### TEST CERTIFICATE (continued from No.1/2)

Messrs. ENDEAVOUR LAB Co., Ltd.

#### 2. Test Method

A specific amount of test particulate matter (surrogate pollen grain particles) granulated to a constant particle size by a granulator is allowed to fall uniformly at a constant feed rate toward a collecting surface of filter specimen with the downwardly aspirated airflow rate maintained constant through the test system during the measurement period. The particle filtration efficiency of the sample is calculated using the following equation:

$$\text{Filtration Efficiency of Pollen grains(\%)} = 100 \times A / (A + B)$$

where,

A = Amount of particles left on the specimen (mg)

B = Amount of particles passed through the specimen (mg)

#### Test Conditions

Type of test particulate : Lycopodium Spore (APPIE Standard Powder)

Aspirated airflow rate : 28.3 L/min

Amount of test particulate :  $75 \pm 5$  mg

Feedrate of test particulate :  $20 \pm 5$  mg/min

Atmospheric condition :  $20 \pm 5^\circ\text{C}$ ,  $50 \pm 10\% \text{RH}$

[Japan Sanitary Face Mask Industry Association Regulated Test Method]

#### 3. Sample



Period.