Detergency test Kaken Test Center Data

Pass

Kaken Test Center Data

%Criteria for evaluation -2: Significantly inferior -1: Slightly inferior 0: Comparable + 1 : Slightly superior + 2 : Significantly superior

→ Most highly evaluated, "+2: Significantly superior" to general cleaning agents

Antiviral test

Stock solution

1. Influenza virus (H1N1) Kaken Test Center Data

Cample	Inactivation test (EID₅₀ /0.1ml)				
Sample	Start	30 seconds later	5 minutes later	30 minutes later	
Stock solution 10-fold diluted	>10 4.5	<1	Not detected	Not detected	
→ Almost completely inactivated 30 seconds later and completely inactivated 5 minutes later					

Author completely inactivated 50 seconds later and completely inactivated 5 minutes later							
2. Norovirus	Japan Food Research Laboratories Data						
Commit		Infectious dose (logTCID ₅₀ /ml)					
Sample	Start	30 seconds later	5 minutes later	30 minutes later			
Stock solution 6-fold diluted	8.7	<3.5	<3.5	<3.5			
<3.5 : Not detected							

→No viral infectivity detected 30 seconds later

Antibacterial test 1. E. coli O-157: H7

2. Staphylococcus aureus

Sample	Initial bacterial count	5 minutes later	30 minutes later	5 minutes later	30 minutes late
Stock solution	_	8.5E+04	1.5E+00	43.3	≥99.9
Distilled water (control)	1.5E+05	1.9E+05	1.8E+05	(- 26.7)	(- 20.0)

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Commis	Viable cell count/ml			Sterilization rate (%) 🔆		
Sample	Initial bacterial count	5 minutes later	30 minutes later	5 minutes later	30 minutes later	
Stock solution	_	2.7E+02	3.0E+00	99.7	≥99.9	
Distilled water (control)	8.7E+04	8.1E+04	7.3E+04	6.9	16.1	
3 Salmonella				Kaken Te	st Center Data	

5. Satifionetta Rakeii Test Center Data					
Sample	Viable cell count/ml			Sterilization rate (%) *	
Sample	Initial bacterial count	5 minutes later	30 minutes later	5 minutes later	30 minutes later
Stock solution	_	4.6E+04	7.0E+00	89.8	≥99.9
Distilled water (control)	4.5E+05	4.3E+05	5.3E+05	4.4	(- 17.8)
**Sterilization rate = $\{(A-B)/A\} \times 100$					

A: Initial bacterial count as a control B: Viable cell count in a sample

Deodorization test

1. Ammonia gas removal performance

	Affilhonia concentration (ppm)				
	Initial concentration	2 hours later			
tock solution	100	4.8			
Blank (blank test)	100	71			
Decrease rate	93%				

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2. Trimethylami	ne gas removal performance
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Trimethylamine concentration (PPM)				
Initial concentration	2 hours later			

Sample		Initial concentration	2 hours later
	Stock solution	28	6.8
	Blank (blank test)	28	26
	→Decrease rate:	74%	

3. Hydrogen su	lfide gas removal performance	Kaken Test Center Data	
Sample	Hydrogen sulfide concentration (PPM)		
	Initial concentration	2 hours later	
Stock solution	4.0	0.5	
Blank (blank test)	4.0	3.9	

→Decrease rate: 87%

Antistatic test [Sample] Stock solution 40-fold diluted

Half-life (sec)		(sec)	< 1.0		
Frict	Cotton	Vertical	560	25	13
Frictional voltage	Cotton	Horizontal	450	29	12
charge	Wool	Vertical	490	160	38
(S)		Horizontal	210	150	37
Toct	metho	de IIS I	1094-1997 Half-life	determination	

JIS L 1094-1997 Frictional charge voltage measurement

- → Half-life after charging [time until charge voltage decreases by half]: ≤1 sec → Frictional charge voltage for nylon: 560V
- *Reference standards: Half-life: ≤ 10 sec/Frictional charge voltage: ≤ 3,000V Half-life: ≤ 30 sec/Frictional charge voltage: ≤1,500V

Antifungal test Kaken Test Center Data

Test method: JIS Z 29112000 (dry type)

Stock solution

Note) * 0: No hyphal growth at the site of inoculation in a sample or test piece.

- 1: The area of hyphal growth at the site of inoculation in a sample or test piece
- accounts for less than one-third of the total area. 2: The area of hyphal growth at the site of inoculation in a sample or test piece
- accounts for more than one-third of the total area.
- → No fungal growth observed even 4 weeks later. The causative substances of soy allergy are generally accumulated

in proteins. During oil production, the causative proteins are removed from soybean fatty acids as raw materials.