GRAFTON

June 1, 2022

Deodorization of Bad Living Odors
Disinfection of New Corona Virus

Product

FTN-103-LLST-5

For 5 Fold Dilution (Spray Use)

Product Description

Purpose	**Deodorization of bad living odors.** **Ammonia (Perspiration/Fatigue Smells), Acetic Acid (Perspiration Smell), 2-Nonenal (Aging Smell), Methyl Mercaptan (Foul Breath), Diallyl Methyl Sulfide (Garlic Smell), Dimethyl Trisulfide (Stress/Foul Breath Smells)** **Disinfection Effect of New Corona Virus.**
Application	**Using by spraying and/or applying to living goods and base materials.**
Spray Spots	**Clothing, Curtain, Interior, Wall Sheet, Bedding Apparatus, Automobile.**
Storage	**Store in cool and dark place.**
Remarks	**Do not spray against persons and animals.**
Direction	**Dilute with pure or tap waters to 5 folds or up.**

Technical Description

Form	**Liquid**
Color	**Semi-transparent**
Main Comp.	**Cation and Anion Components, Ethanol, Purified Water, etc.** **Alkyl Glycoside（Undiluted Solution: 1%・In 5 Fold : 0.2%）**
NVM	**＜10%**
pH	**6.0～7.0**
Viscosity	**1.0～1.5mPa･sec**

Disinfection Effect Against New Corona Virus with 0.1% or above of Alkyl Glycoside was confirmed by National Institute of Technology and Evaluation (NITE).

99.999% or above infection reduction rate with 0.05% (In 20 Sec.) was confirmed by the verification test conducted by the National Institute of Infection Diseases.

■ **The mixing ratio of Alkyl Glycoside in this material is 1.0% (0.2% in case of fivefold dilution)**

Please refer to following URL for further information

消費者庁 Consumer Affairs Agency, Government of Japan　経済産業省 Ministry of Economy, Trade and Industry　厚生労働省

Select right product for right purpose among products stipulating disinfection control measures against New Corona Virus.

https://www.meti.go.jp/press/2020/06/20200626013/20200626013-1.pdf

経済産業省　nite National Institute of Technology and Evaluation 独立行政法人 製品評価技術基盤機構

New Corona Virus Measures
Surfactants containing in detergents eliminate New Corona Virus

https://www.meti.go.jp/press/2020/06/20200626013/20200626013-3.pdf

Alkaline Odors

Ammonia : Urine Odor
Trimethylamine: Fish Odor

- **Trimethylamine** $R\text{-}SO_3H + (CH_3)_3N \rightarrow R\text{-}SO_3(CH_3)_3N$
- **Ammonia** $R\text{-}SO_3H + NH_3 \rightarrow R\text{-}SO_3NH_4$

Acid Odors

Acetic Acid : Sweat Odor
Valeric Acid: Socks Odor

- **Acetic Acid** $R\text{-}NH_2 + CH_3COOH \rightarrow NH_3COOCH_3$
- **Isovaleric Acid** $R\text{-}NH_2 + CH_3(CH_2)_3COOH \rightarrow NH_3COOCH_3\ (CH_2)_3$

Aldehyde Odors

Acetaldehyde: Hangover odor
: Cigarette Odor
2-Nonenal : Aging Odor

- **Acetaldehyde** R-NH2 + CH3CHO → R-NCH2CH2 + H2O
- **2-Nonenal** R-NH2 + $CH_3(CH_2)_5(CH)_2CHO \rightarrow$ R-$NCH_3(CH_2)_5(CH)_2CH_2$ H2O

Evaluation of Deodorizing Effect FTN-103-LLST-5 (Diluted in Fivefold)

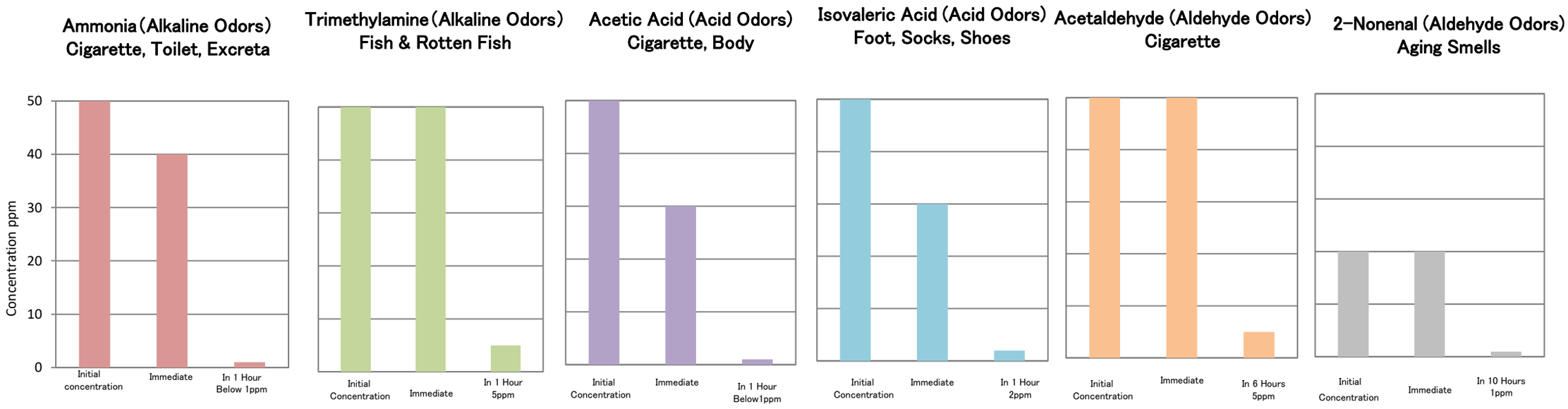
	Ammonia	Acetic Acid	2－Nonenal	Methyl Mercaptan	Diallyl Methyl Sulfide	Dimethyl Trisulfide
	Sweat Fatigue	Sweat	Aging	Mouth Breath	Garlic Mouth Breath	Stress Mouth Breath
immediate	0	1	1	0	0	0
30 min.	0	1	1	0	0	0
1 hour	0	0	0	0	0	0

◆Deodorizing Evaluation Table (Indicating Odor Intensity in 6 Levels)

0	1	2	3	4	5
Odorless	Very Weak Odor (Detectable) Detective Threshold	Weak Odor (Distinguishable) Cognitive Threshold	Easily Detectable	Strong Odor	Extremely Strong Odor

Evaluation of Deodorizing Effect FTN-103-LLST-5 (Diluted in Fivefold)

◆ [Test Method] Test methods were in conformity to Japan Textile Evaluation Technology Council and Air Freshness & Deodorizers Conference



Supervision: AIREX Co., Ltd.,
The Tokai University Academic-Industrial collaboration Testing Laboratory

Above date are obtained by our laboratory and are considered as accurate, however, recommend for review and check the final usage and conditions prior to using for actual purposes.

GRAFTON INC.

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