



Chemical Adsorbent of Aldehydes Disinfectant of New Corona Virus

Product Description

Application	: Adsorbent for Formaldehyde, Acetaldehyde		
	: Disinfectant for New Corona Virus		
Formaldehyde	: Chemical Adsorbing Reaction by the Dehydration of Amino & Aldehyde Groups		
Chemical Reaction	: Formaldehyde R-NH2+HCHO → R-NCH 2 +H2O		
Formula	: Acetaldehyde R-NH2+CH3CHO \rightarrow R-NCHCH3-H2O		

Disinfection Effect Against New Corona Virus :

National Institute of Technology and Evaluation (NITE) confirmed, according to their verification tests among those surfactants which were known as effective to New Corona Virus, that Alkyl Glycoside (Over0.1%) was found to be effective to disinfect New Corona Virus.

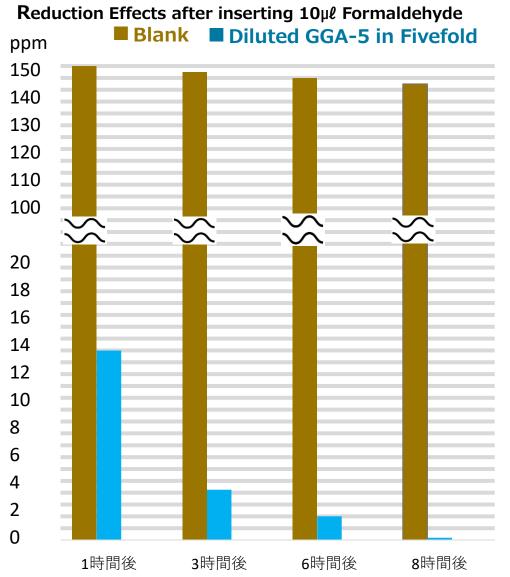
The verification test by National Institute of Infectious Diseases:

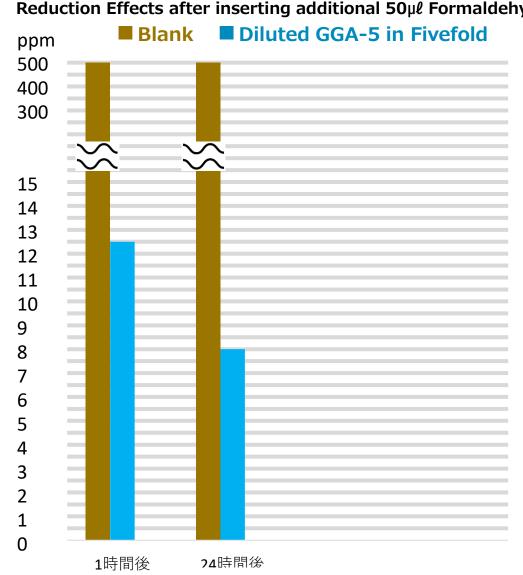
Confirmed the infectivity reduction rate of 99.999% or above in 20 sec with 0.05%. Confirmed inactivation effect in 1 min. with 0.1%

■GGA-5 Contains 0.5% of Alkyl Glycoside (0.1% component amount in fivefold dilution)

Spray (Dilute in Fivefold) Direction Coating (Stock Liquid) **Impregnate Filter**

Performance Reduction effects of Fivefold Diluted GGA-5





Reduction Effects after inserting additional 50µl Formaldehyde

Reducing Rate: 99% up

Insert 1µℓ Formaldehyde	Blank	Diluted GGA-5 in Fivefold
In 1h (ppm)	150	16
In 3h (ppm)	145	4.2
In 6h(ppm)	140	2
In 8h(ppm)	130	0.3

Reducing Rate: 98% up

Insert Additional 50µl Formaldehyde	Blank	Diluted GGA-5 in Fivefold
In 1h (ppm)	500	25
In 24h (ppm)	445	8

GGA-5 : Reduction Effects of Formaldehyde

 $10\mu\ell$ of 37% Formaldehyde Solution was injected as initial amount, and then, injected additional $50\mu\ell$ in 3 times continuously, Total $160\mu\ell$. As result, it was confirmed the final reduction of 99.9% or above.

ppm

GGA-5

20.8

99.9%

0.2

99.9%

Initial:	Injected	10µl
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		ppm
	Blank	GGA-5
In 1h	150	7
R/R	0.0%	99.9%
In 2h	148	1.6
R/R	0.0%	99.9%
In 3h	142	0.2
R/R	0.0%	99.9%
In 8h	142	ND
R/R	0.0%	≒100%

2nd : Injected 50µl

Blank

520

0.0%

445

0.0%

Remarks: R/R = Reduction Rate

In 1h

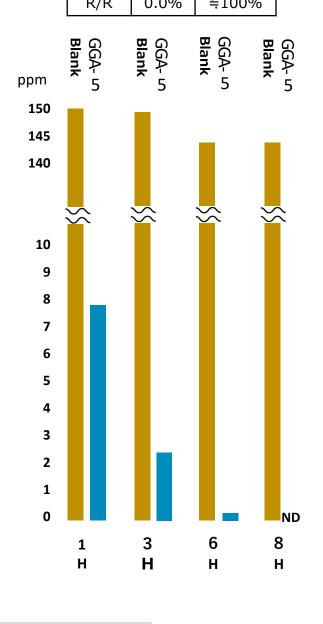
R/R In 2h

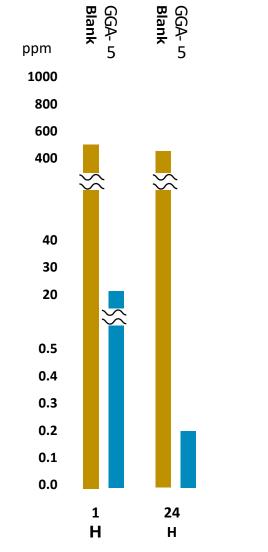
R/R

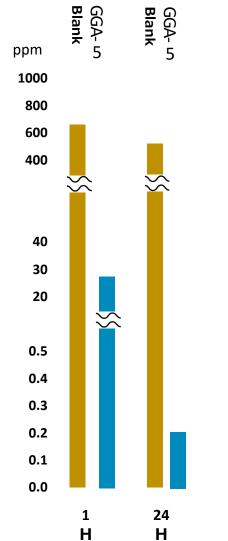
3rd : Injected 50µl

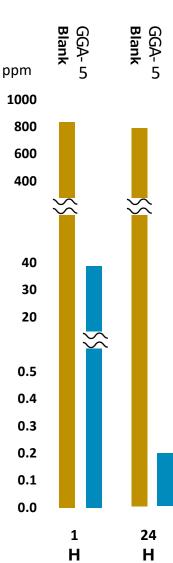
4th	:	Injected	50µℓ

		ppm
	Blank	GGA-5
In 1h	820	39
R/R	0.0%	99.9%
In 2h	750	0.2
R/R	0.0%	99.9%









Technical Data

Form Color Main Components

: Liquid

: Pale Yellow and Transparent

- : Amino Compound
- : Zinc Compound

ppm

		ppm
	Blank	GGA-5
In 1h	650	27.5
R/R	0.0%	99.9%
In 2h	500	0.2
R/R	0.0%	99.9%

- : Alkyl Glycoside (0.5%)
- : Purified Water
- pH : 2.5~3.0
- Viscosity : $2\sim 5mPa \cdot sec$

Precaution Wear protective glasses and masks to prevent the spraying mists get into eyes.

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.

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