

Simultaneous announcement: Ministry of Economy, Trade and Industry

29/5,2020

N I T E (ナイト)

National Institute of Technology and Evaluation  
Corporate Number 9011005001123

## News Release

### Surfactant effective against the new coronavirus. Publication (Vol. 2)

～ More options for disinfection of items～

NITE [National Institute of Technology and Evaluation (NITE) [National Institute of Technology and Evaluation (NITE), President: Takashi Tatsumi] held the fourth meeting of the "Investigative Committee on the Evaluation of the Effectiveness of Alternative Disinfection Methods for New Coronaviruses" on May 28 to discuss for the second time the results of verification tests to evaluate the effectiveness of candidate materials using new coronaviruses.

As a result, two new surfactants were determined to be effective against the new coronavirus, in addition to the five surfactants used in household and furniture detergents and other products that were determined to be effective against the new coronavirus at the previous committee meeting.

1. In response to a request from the Ministry of Economy, Trade and Industry (METI), the National Institute of Technology and Evaluation (NITE) is assessing the effectiveness of disinfection methods in response to the spread of a new type of coronavirus and to increase options for disinfection in homes and workplaces other than alcohol. (April 15 news release). To this end, on May 1, we began joint verification testing with the National Institute of Infectious Diseases and the Kitasato Institute for Educational Corporation using the new coronavirus, respectively.

2. Yesterday, May 28, the fourth meeting of the committee was held to discuss the results obtained to date from the validation tests of candidate materials using the new coronavirus. As a result, benzethonium chloride (0.05% or more) and dialkyldimethylammonium chloride (0.01% or more), which were judged to be promising at the previous committee meeting held on May 21, were determined to be effective against the new coronavirus. The following seven surfactants have been determined to be effective against the novel coronavirus.

- ▶ Sodium linear alkylbenzene sulfonate (0.1% or more)
- ▶ Alkyl glycosides (0.1% or more)
- ▶ Alkylamine oxide (0.05% or more)
- ▶ Benzalkonium chloride (0.05% or more)
- ▶ Benzethonium chloride (more than 0.05%) [Added on May 28].
- ▶ Dialkyldimethylammonium chloride (0.01% or more) [Added on May 28].
- ▶ Polyoxyethylene alkyl ether (0.2% or more)

3. It was decided that the committee could not reach a decision on hypochlorous acid water and that verification tests would be continued.

4. This verification test is expected to expand the options for disinfection at home and in the workplace as a countermeasure against the new coronavirus. We have prepared a poster on disinfection of familiar objects with these surfactants. In addition, the "List of Detergents and Other Detergents with Confirmed Surfactant Effectiveness" published on the website has been updated to reflect the latest additions.

5. Materials related to this presentation

Released from the NITE website

<https://www.nite.go.jp/information/osirase20200529.html>

- Materials for the 4th Study Committee  
(verification test results, fact sheet on hypochlorous acid water, etc.)
- Poster "Disinfect your everyday objects with household detergents" (with two additional surfactants).

(Reference) About the Review Committee

[ The Committee on Evaluation of the Effectiveness of Alternative Disinfection Methods for New Coronaviruses ]

Chairperson: Tetsuya Matsumoto, Professor, International University of Health and Welfare

(Vice-Chairman of the Japan Society for Environmental Infection)

Composition of the committee: national laboratories/university academics, related organizations, etc.

Observers: Ministry of Health, Labour and Welfare, Ministry of Economy, Trade and Industry, etc.

#### Contact information

Makito Takami, Director : National Institute of Technology and Evaluation (NITE)

Disinfection Methods Task Force Kato (Deputy Director, Biotechnology Center)

( For inquiries about this release ) please contact Mr. Yoshida and Ms. Tanabe at 03-3481-6685.

Email address: [dmtf-koho@nite.go.jp](mailto:dmtf-koho@nite.go.jp)