

NIPRO

# CLFine

*Ionless Hypochlorous Acid Water* 



## Prevention for airborne bacteria and viruses

Effective chloride concentration 40±10ppm

Less than NaCl 10mg/L

pH 5.0 ~ 6.5

Using the technology cultivated in the medical field for many years,Nipro would like to propose Ionless<sup>™</sup> Hypochlorous Water that will disinfect and reduce indoor airborne bacteria.

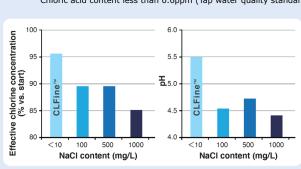
\*Ionless

Less than NaCl10mg/L and total amount of ions other than NaCl of 15 mg/L or less (Nipro standard)

## Ionless<sup>™</sup> Hypochlorous Water

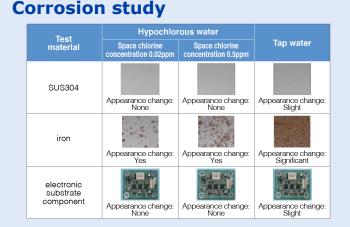
CLFine<sup>™</sup> is made from Japanese Pharmacopoeia sodium chloride and purified water. JIS B 8701:2017 It is manufactured using a dedicated device (three-chamber electrolytic hypochlorous water generator) that complies with hypochlorous water generators, which reduces ions such as NaCl, nitrate ions, and sulfate ions. Water quality also complies with the water quality standards stipulated in the JIS standard.

#### Stability Storage condition: 40°C - 1 month



Standard : Effective chlorine concentration 40±10ppm (30ppm=65% vs. start) pH 5.0~6.5 Chloric acid content less than 0.6ppm (Tap water quality standards)

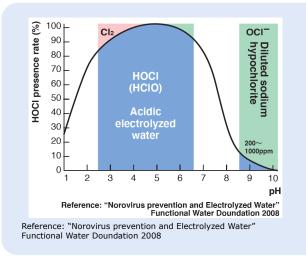
## Tested safe for indoor use



Study Facility : JFE Techno-Reseach Corporation Test Method : Accelerated test by doverting JIS C 60068-2-52 CLFine<sup>™</sup> is adjusted to an effective chlorine concentration of 40 ppm and can be used without dilution. Also, the pH was adjusted to slightly acidic, and the effects of metal corrosion and misting on the living body were also confirmed. Regarding the concentration for use, we propose it according to the customer's environment, referring to the standard of chlorine control concentration (0.5 ppm) of the Industrial Safety and Health Act.



# Effectiveness of reduction and disinfection of bacteria/virus by hypochlorous water



Acidic electrolyzed water (hypochlorous water) has a higher ratio of hypochlorous acid (HOCI), which is a bactericidal factor than sodium hypochlorite, so it shows high activity at low concentrations. CLFineTM is an ionlessTM (hypochlorous water) with a high hypochlorous acid (HOCI) presence rate adjusted to pH 5.0 to 6.5.

#### NIPRO CORPORATION (Headquarters)

3-9-3, Honjo-Nishi, Kita-ku, Osaka, 531-8510, Japan Tel: +81 6 6372 2331 Fax: +81 6 6371 7422 https://www.nipro.com.jp/en/

#### NIPRO ASIA PTE LTD

6 Temasek Boulevard #31-01/02 Suntec Tower Four Singapore 038986 Tel: +65 6588 2281 Fax: +65 6588 2481 Email: niproasia@nipro.com.sg http://www.niproasia.com.sg/

#### **NIPRO MALAYSIA SDN. BHD**

B-3-2 The Ascent Paradigm, No.1 Jalan SS7/26A, Kelana Jaya, 47301 Petaling Jaya, Selangor, Malaysia Tel: +603 7622 1190/1191/1192 Fax: +603 7622 180 Email: office@nipro.com.my

#### NIPRO JMI MEDICAL LTD

Unique Heights, Level 11, 117, Kazi Nazrul Islam Avenue, Ramna, Dhaka-1217, Bangladesh Tel: +880 2 55138723 Fax: +880 2 55138725 Email: info@jmigroup-bd.com

#### NIPRO AUSTRALIA PTY LTD

Suite 2. 02, 657 Pacific Highway, St. Leonards, NSW 2065, Australia Tel: +61 2 9437 9000 Fax: + 61 2 9437 0860 Email: support@niproaustralia.com.au http://www.niproaustralia.com.au/

#### NIPRO MEDICAL PVT LTD

24-CCA, DHA Phase 8, (Ex Park View), Lahore-54792, Pakistan Tel: +92 4237175802/4237175803 Fax: +92 4237175804 Email: info@nipromedical.com.pk

#### NIPRO SALES (THAILAND) CO., LTD.

89/170 Nipro Building, Viphavadee-Rangsit Road, Talad-Bangkhen, Laksi, Bangkok, THAILAND 10210 Tel : +66 2551 2000 Fax : +66 2551 2006 Email : sales@niprosales.com

#### NIPRO SALES VIETNAM COMPANY LIMITED

Floor 15, Unit 15.06 & 15.07, Viettel Complex Building 285 Cach Mang Thang 8, Ward 12, District 10, Ho Chi Minh city, Vietnam Tel : +84 908 260 405 Email : nhuy@niprosales.com

#### NIPRO SALES (THAILAND) CO., LTD. -MYANMAR REPRESENTATIVE OFFICE

No. E 302, Manawhary Housing, Baho Road, Ahlone Township,Yangon, Myanmar Tel : +66 2551 2000 Fax : +66 2551 2006 Email : win@niprosales.com