

# NOVIRUCLEAN RTU<sup>1/30</sup>

*Disinfectant Cleaner & Deodorant*

3471



## DESCRIPTION

**NOVIRUCLEAN RTU<sup>1/30</sup>** is an ultra-broad spectrum **Bactericidal, Yeasticidal** and **Viricidal** spray & wipe disinfectant cleaner, that is effective against the most common disease-causing organisms often found in public transports, public areas and hospitals ie.: Flu, influenza A, H1N1, SARS, MERS, Coronavirus.

**NOVIRUCLEAN RTU<sup>1/30</sup>** effectively cleans, deodorizes and disinfects all hard surfaces reducing contamination by bacteria, yeast and Virus.

## APPLICATIONS



**NOVIRUCLEAN RTU<sup>1/30</sup>** is a 3-way action which effectively cleans, disinfects and deodorizes all inanimate, hard and non-porous surfaces such as stainless, laminates, aluminum and plastics, metal.

**NOVIRUCLEAN RTU<sup>1/30</sup>** is recommended for cleaning & disinfection of public transports ie : trains, bus, taxi, aircraft cabins surfaces, holding bars, seats, armrests, tray tables, seatback pockets, overhead compartments, crew rest area, control panels, telephones, waste bins, galleys, lavatory, waste tank, floors, walls, doors, panels ; general public areas i.e.: schools, office buildings, factories, gyms, cinemas, hotels, restaurants, hospitals & clinics etc.

## PRODUCT BENEFITS

- 3-way action : Cleans, Deodorizes and Disinfects.
- Bactericidal against gram± strains.
- Viricidal against all enveloped Virus & non-enveloped Virus (Adenovirus, Norovirus, Rotovirus).
- *No EDTA, no aldehyde.*
- Does not stain cabin interiors and plastics.
- Effective in hard or soft, hot and cold waters.
- Powerful cleaning action.
- Operator friendly thanks to low irritancy and mild apple fragrance.
- *Complies with European Biocides Regulation n°528/2012.*
- Economical

## PHYSICAL PROPERTIES

Appearance .....	Liquid
Colour .....	Clear
Odour .....	Green Apple
pH .....	7.0 – 7.5
Flash Point .....	Non-flammable
Coverage .....	35m <sup>2</sup> / L

## APPROVALS / CONFORMANCES

- AMS 1453, Disinfectant cleaner for aircraft interiors (general purpose liquid).
- AMS 1453A, Disinfectant cleaner for aircraft interiors (general purpose liquid).
- Boeing D6-7127 Rev P, Cleaning & disinfection of Commercial aircrafts category Disinfectants.
- Boeing BSS7434, Chemical Compatibility of Cleaning Products & Interior parts/Materials of Commercial Transport Aircraft.
- [Bombardier : interior grooming and disinfection.](#)
- [Royal Canadian Air Force : Aircraft Sanitation & Disinfection for COVID-19.](#)
- EU Biocides Regulation n°528/2012 (applicable 1<sup>st</sup> September 2013)



## MICROBIOLOGIC ACTIVITIES for NOVIRUCLEAN-3471 (NEAT)

### EN 1276:2019 – Bactericidal (phase 2, step 1)

“Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.  $\log_{10}$ ”

Test Organisms	ATCC No.	Organic Load (3.0 g/L bovine albumin)	Concentration	Exposed Time @ 20°C	Titer Reduction $\log_{10}$ (Efficacy %)
<i>Staphylococcus aureus</i>	ATCC 6538	Dirty Condition	0.5%	5 minutes	≥ 5.55 (99.999%)
<i>Enterococcus hirae</i>	ATCC 10541	Dirty Condition	0.5%	5 minutes	≥ 5.21 (99.999%)
<i>Escherichia coli</i>	ATCC 10536	Dirty Condition	0.5%	5 minutes	≥ 5.44 (99.999%)
<i>Pseudomonas aeruginosa</i>	ATCC 15442	Dirty Condition	0.5%	5 minutes	≥ 5.55 (99.999%)

### EN 1650:2019 – Yeasticidal (phase 2, step 1)

“Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas – Test method and requirements”

Test Organisms	ATCC No.	Organic Load (3.0 g/L bovine albumin)	Concentration	Exposed Time @ 20°C	Titer Reduction $\log_{10}$ (Efficacy %)
<i>Candida albicans</i>	ATCC 10231	Dirty Condition	0.5%	15 minutes	≥ 4.18 (99.99)

### EN 13697:2019 - Bactericidal & Yeasticidal (Phase 2, Step 2 : Test Method without Mechanical Action)

“Chemical disinfectants and antiseptics - “Quantitative Non-Porous Surface Test for the Evaluation of Bactericidal and/or Fungicidal Activity of Chemical Disinfectants Used in Food, Industrial, Domestic, and Institutional Areas.”

Test Organisms	ATCC No.	Organic Load (3.0 g/L bovine albumin)	Concentration	Exposed Time @ 20°C	Titer Reduction $\log_{10}$ (Efficacy %)
<i>Staphylococcus aureus</i>	ATCC 6538	Dirty Condition	1.0%	15 minutes	≥ 6.44 (99.9999%)
<i>Enterococcus hirae</i>	ATCC 10541	Dirty Condition	1.0%	15 minutes	≥ 6.59 (99.9999%)
<i>Escherichia coli</i>	ATCC 10536	Dirty Condition	1.0%	15 minutes	≥ 6.78 (99.9999%)
<i>Pseudomonas aeruginosa</i>	ATCC 15442	Dirty Condition	1.0%	15 minutes	≥ 4.42 (99.99%)
<i>Candida albicans</i>	ATCC 10231	Dirty Condition	0.5%	15 minutes	≥ 3.28 (99.9%)

**Conclusion – Bactericidal & Yeasticidal**

Based on the above results and according to **EN 1276:2019** and **EN 13697:2019 NOVIRUCLEAN** demonstrates Bactericidal activities at 1.0% :

Gram- Strain	Gram+ Strain
<i>Acinetobacter baumannii</i>	<i>Enterococcus Hirae</i>
<i>Burkholderia cepacia</i>	<i>Methicillin resistant Staphylococcus aureus (MRSA)</i>
<i>Enterbacteriaceae (Carbapenem resistant) Klebsiella &amp; E. Coli (CRE)</i>	<i>Staphylococcus aureus subsp. aureus</i>
<i>Escherichia coli (O157:H7)</i>	<i>Streptococcus (PSWRP)</i>
<i>ESBL producing Klebsiella and E. coli</i>	<i>Vancomycin resistant Enterococci (VRE)</i>
<i>Klebsiella pneumoniae</i>	<i>Vancomycin Intermediate Resistant Staph aureus (VISA)</i>
<i>Pseudomonas aeruginosa</i>	<i>Vancomycin resistant Staph aureus (VRSA)</i>
<i>Salmonella Typhimurium &amp; Salmonella Enterica Subsp. Enterica</i>	
<i>Serratia marcescens</i>	
<i>Shigella dysenteriae</i>	
<i>Stenotrophomonas</i>	

Based on the above results and according to **EN 1650:2019** and **EN 13697:2019 NOVIRUCLEAN** demonstrates Yeasticidal activities at 0.5% :

Candiada Albican
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**EN 14476+A2 :2019 – Viricidal (Phase 2, Step 1)**

Chemical disinfectants and antiseptics - "Quantitative suspension test for the evaluation of virucidal activity in the medical area

Test Organisms	ATCC No.	Organic Load (3.0 g/L BSA + 3 mL/L sheep erythrocytes)	Concentration	Exposed Time @ 30°C	Titer Reduction log <sub>10</sub> (Efficacy %)
Human Coronavirus <sup>1</sup> (strain 229 E)	ATCC VR-740	Dirty Condition	2.8% (1:35)	10 minutes	≥ 4.25 (99.99%)
Murine Norovirus (strain S99)	ATCC TIB-71	Dirty Condition	2.8% (1:35)	10 minutes	≥ 4.12 (99.99%)
Human Adenovirus type 5, (adenoid strain 75)	ATCC VR-5	Dirty Condition	3.3% (1:30) <sup>2</sup>	10 minutes	≥ 4.37 (99.99%)

<sup>1</sup> Human Coronavirus (229 E strain), genetically close to the SARS-CoV-2 (COVID-19),

**Conclusion – Viricidal**

Based on the above results and according to **EN 14476+A2 (2019)** and **ANSES** (French Agency for Food, Environmental and Occupational Health & Safety) **NOVIRUCLEAN** demonstrates viricidal activities on:

All Enveloped Virus : (at concentration 3.3% following a 10 minutes exposure time at 30°C)

<i>Bovine Viral Diarrhea Virus (BVDV)</i>	<i>Bovine Rhinotracheitis</i>	<i>Canine Distemper Virus</i>
<i>Coronavirus : MERS, SARS-Cov1, SARS-CoV2 (COVID-19)</i>	<i>Ebolavirus</i>	<i>Feline Picornavirus</i>
<i>Hepatitis B Virus (HBV)</i>	<i>Hepatitis C Virus (HCV)</i>	<i>Herpes Simplex Type 1 &amp; Type 2</i>
<i>Human Immunodeficiency Virus (HIV-1) / (HIV-2)</i>	<i>Influenza Avian Influenza A (H1N1), (H2N2), (H3N2), (H3N2), (H5N1), (H9N2)</i>	<i>Paramyxovirus (Mumps)</i>

Pertussi Virus ( <i>Bordetella pertussis</i> )( <i>Whooping cough</i> )	Porcine Respiratory & Reproductive Syndrome Virus (PRRSV)	<i>Rabies Virus</i>
Respiratory Syncytial Virus (RSV)		

Non-enveloped Virus : (at concentration 3.3% following a 10 minutes exposure time at 30°C)

<i>Adenovirus</i>	<i>Norovirus</i>	<i>Rotavirus</i>
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**DIRECTION FOR USE**

**Spray and Wipe application:**

**For general cleaning:**

Simply spray **NOVIRUCLEAN RTU<sup>1/30</sup>** on surface to be cleaned and wipes off with a clean cloth. No preparation of the surface is necessary. **NOVIRUCLEAN RTU<sup>1/30</sup>** easily removes marks, smudges, light soils and fingerprints.

**For disinfection:**

Spray **NOVIRUCLEAN RTU<sup>1/30</sup>** on the surface and allow a contact time of at least 10 minutes before wiping off with a clean cloth.

[\\* 3471 NOVIRUCLEAN RTU<sup>1/30</sup> has been included in National Environment Agency \(Singapore\) - NEA's Interim List of Household Products Effective Against Coronavirus.](#)

**MATERIALS OF CONSTRUCTION COMPATABILITY**

Safe for use on all materials used in the construction of aircraft and aircraft toilets, both re-circulating and vacuum type.

**STORAGE & SAFETY**

Two year in original packaging in a cool and dry place. **NON-HAZARDOUS**. Avoid contact with eyes and skin. Wear safety glasses if splashing is likely to occur. Wear rubber gloves if prolonged skin contact is expected. **Product reserved for professional use only. Use biocides with caution.**

**For further information please refer to the Safety Data Sheet.**

**PACKAGING**

- Ref: A-3471-F6..... Bottle 500ml x 6
- Ref: A-3471-R1 ..... Jerry Can 5L x 4
- Ref: A-3471-R2 ..... Pail 25L

**WARRANTY**

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