



# Vestec™ 220

## DISINFECTANT NO RINSE SANITIZER

Vestec 220 Solution is designed specifically for hospitals, food processing plants, dairies, restaurants, bars, animal quarters, kennels and institutions where disinfection, sanitization and deodorization is of prime importance. When used as directed, this product is formulated to disinfect pre-cleaned inanimate, hard surfaces such as walls, floors, sink tops, tables, chairs, and bed frames. This product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, pet areas and any other areas which are prone to odors caused by microorganisms.



## DIRECTIONS FOR USE

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**DISINFECTION** - To disinfect pre-cleaned, inanimate, hard surfaces apply this product with mop, cloth, sponge or coarse (trigger) spray so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Prepare a fresh solution for each use.

## DILUTION RATES

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**GENERAL DISINFECTION** - Add 22 mL of this product per 4 Litres of water for disinfection against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Listeria monocytogenes*, *Yersinia enterocolitica*, *Escherichia coli* and *E. coli* 0157:H7

**HOSPITAL DISINFECTION** - Add 22 mL of this product per 4 Litres of water for disinfection against *Pseudomonas aeruginosa*.

**\*VIRUCIDAL ACTIVITY** - This product, when used on pre-cleaned environmental inanimate hard surfaces at 22 mL per 4 Litres of water exhibits effective virucidal activity against Influenza A2/Japan (representative of the common flu virus), herpes Simplex Type 1 (causative agent of fever blisters), Adenovirus Type 5 (causative agent of upper respiratory infections), Vaccinia virus (representative of the pox virus group), and Avian influenza A/Turkey/Wisconsin (causative agent of an acute avian lower respiratory tract infection).

**DEODORIZATION** - To deodorize, apply this product as indicated under the heading GENERAL DISINFECTION.

**MILDEWSTAT** - To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 22 mL of this product per 4 Litres of water. Apply solution with a cloth, mop, or sponge making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

**EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).**

**SANITIZATION** - For use in restaurants, dairies, food processing plants, and bars. When used as directed this product is an effective sanitizer against *Escherichia coli*, *Yersinia enterocolitica*, and *Staphylococcus aureus* and *E. coli* 0157:H7. Remove all gross food particles and soil from areas which are to be sanitized with good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with a potable water rinse. To sanitize pre-cleaned and potable water-rinsed, non-porous, food contact surfaces, prepare a 200 ppm active quaternary solution by adding 8 mL of this product to 4 Litres of water. To sanitize immobile items such as tanks, chopping blocks and counter tops, flood the area with 200 ppm active quaternary solution for at least 60 seconds making sure to wet all surfaces completely. Remove, drain the use solution from the surface and air dry. Prepare a fresh solution daily or more frequently as soil is apparent. To sanitize mobile items such as drinking glasses and eating utensils, immerse in a 200 ppm active quaternary solution for at least 60 seconds making sure to immerse completely. Remove, drain the used solution from the surface and air dry. Prepare a fresh solution daily or more frequently as soil is apparent. When used for sanitization of previously cleaned food equipment or food contact items, limit the active quaternary to 200 ppm. **NO POTABLE WATER RINSE IS REQUIRED.** This product is an effective sanitizer when diluted in water up to 750 ppm hardness (CaCO<sub>3</sub>).

This product Vestec 220 DIN 02242168 is a broad-spectrum virucidal hard surface disinfectant that is expected to inactivate the SARS-CoV-2 (the virus that causes COVID-19).

**DISPOSAL** - 1. Rinse the emptied container thoroughly and add the rinsings to the treatment site. 2. Follow provincial instructions for any required additional cleaning of the container prior to disposal. 3. Make the empty container unsuitable for further use. 4. Dispose of the container in accordance with provincial requirements. 5. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer.

## USER TYPES

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Commercial and industrial properties, schools/ colleges/ universities, supermarkets/retail stores, cleaning contractors, hospitals and nursing homes.

## SAFETY INFORMATION

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- See product label before using
- Keep out of reach of children
- Recycle packaging
- Low carbon footprint
- Avoid contamination of food
- For industrial and institutional use only
- Keep from freezing
- Do not store in food processing or food storage areas
- **DO NOT TAKE INTERNALLY**

Skin and eye irritant. Harmful if swallowed. Do not mix with anything except water. **FIRST AID:** If in contact with eyes or skin, flush thoroughly with water for 15 minutes. For eye contact, get medical attention. If swallowed, drink two or three glasses of milk or water. Call a physician or poison control centre immediately. Take container, label or product name with you when seeking medical attention.

Take container, label or product name and Drug Identification Number (DIN) with you when you seek medical attention.

Vestec 220 is a commercial and industrial product manufactured by Parkside Professional Products Ltd. Read SDS and label instructions before using product.

## PRODUCT DATA

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pH: 7.5 ± 0.5 (as is)  
Physical State: Liquid  
Specific Gravity: 1.005  
Odour/Appearance: Mild Detergent/Clear Colourless

## AVAILABLE PACKAGING

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|              |                  |
|--------------|------------------|
| 2x3.78L/case | <b>FLD220JU2</b> |
| 4x4L/case    | <b>FLD220J</b>   |
| 20L/pail     | <b>FLD220P</b>   |

Vestec 220 is also formulated as a ready-to-use under the name Vestec 222. Vestec 222 is available in 946 or 4L.

|                     |                            |
|---------------------|----------------------------|
| 6x946ml/cs          | <b>FLD222B6</b>            |
| 4x4L/cs             | <b>FLD222J</b>             |
| 24oz. bottle labels | <b>ZZZLABELVE126 (RTU)</b> |

## DISINFECTATION DATA:

**Test Method:** AOAC Use Dilution

**Test Conditions:** 5% organic soil load, 10 minute contact time, stainless steel carrier substrates 20°C exposure temperature

### Results:

| Test Organism   | Dilution             | Sample | No. of Carriers |          |
|---|----------------------|--------|-----------------|----------|
|   |                      |        | Exposed         | Positive |
| Staphylococcus aureus (ATCC 6538)   | 3 ounces/5 gallons   | A      | 60              | 0        |
|   |                      | B      | 60              | 0        |
| Salmonella enterica (ATCC 10708)  | 3 ounces/5 gallons   | A      | 60              | 0        |
|   |                      | B      | 60              | 0        |
| Listeria monocytogenes (ATCC 35152)   | 3 ounces/5 gallons   | A      | 10              | 0        |
|   |                      | B      | 10              | 0        |
| Yersinia enterocolitica (ATCC 23715)  | 3 ounces/5 gallons   | A      | 10              | 0        |
|   |                      | B      | 10              | 0        |
| Pseudomonas aeruginosa (ATCC 15442)   | 3.5 ounces/5 gallons | A      | 60              | 0        |
|   |                      | B      | 60              | 0        |
| Vancomycin intermediate resistant Staphylococcus aureus (VISA) (HIP-5836)     | 3.5 ounces/5 gallons | A      | 10              | 0        |
|   |                      | B      | 10              | 0        |
| Xanthomonas axon0.411(pathovar citri) (Citrus Canker) (USDA Permit No. 46190) | 2.67 ounces/1 gallon | A      | 10              | 0        |
|   |                      | B      | 10              | 0        |

**Conclusion:** Under the conditions of these investigations, Vestec™ 220 10% Solution demonstrated disinfectant activity against Staphylococcus aureus, Salmonella enterica, Listeria monocytogenes, Yersinia enterocolitica, Pseudomonas aeruginosa, Vancomycin intermediate resistant Staphylococcus aureus (VISA), and Xanthomonas axonopodis pathovar citri (citrus canker) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a bactericide.

## VIRUCIDAL DATA:

### Test Methods:

- ~ Protocols for Testing the Efficacy of Disinfectants against Hepatitis B Virus (HBV) (EPA, Federal Register, Vol. 65, No. 166, 8/25/2000, p. 51828).
- ‡ Protocol for Testing Disinfectants against Hepatitis C Virus using Bovine Viral Diarrhea Virus as approved by the U.S. EPA on August 15, 2002.
- \* U.S. E.P.A. Pesticide Assessment Guidelines, Subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.
- † Virucide Assay (EPA, Federal Register 10, No. 123, 6/25/75, p. 26836)

**Test Conditions:** 3.5 ounces/5 gallons dilution, 10 minute contact time, glass petri dish substrates, 18.5-25°C exposure temperature, tested in the presence of serum

| Results:   | Test Organism | Sample | Titer Reduction         |
|--|---------------|--------|-------------------------|
| † Adenovirus Type 5  |               | A      | ≥3.0 log <sub>10</sub>  |
|  |               | B      | ≥3.3 log <sub>10</sub>  |
| * Avian Influenza A/Turkey/Wisconsin (ATCC VR-798)   |               | A      | ≥5.5 log <sub>10</sub>  |
|  |               | B      | ≥5.5 log <sub>10</sub>  |
| ‡ Bovine Viral Diarrhea Virus (BVDV)   |               | A      | 5.93 log <sub>10</sub>  |
|  |               | B      | 5.93 log <sub>10</sub>  |
| ~ Hepatitis B Virus (HBV) (Duck Hepatitis B Virus-DHBV)                                    |               | A      | 4.68 log <sub>10</sub>  |
|  |               | B      | 4.68 log <sub>10</sub>  |
| ‡ Hepatitis C Virus (HCV) (Bovine Viral Diarrhea Virus-VDV)                                |               | A      | 5.93 log <sub>10</sub>  |
|  |               | B      | 5.93 log <sub>10</sub>  |
| † Herpes Simplex Type 1 (Sabin)  |               | A      | 4.0 log <sub>10</sub>   |
|  |               | B      | 4.0 log <sub>10</sub>   |
| * Human Coronavirus (ATCC VR-740, strain 229E)   |               | A      | ≥4.25 log <sub>10</sub> |
|  |               | B      | ≥4.25 log <sub>10</sub> |
| * Human Immunodeficiency Virus, HIV-1, strain HTLV-III <sub>B</sub> (associated with aids) |               | A      | ≥3.5 log <sub>10</sub>  |
|  |               | B      | ≥3.5 log <sub>10</sub>  |

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| Results:  | Test Organism | Sample | Titer Reduction  |
|---|---------------|--------|--|
| † Influenza A2 (Japan 305/57)   |               | A<br>B | 7.5 log <sub>10</sub><br>7.5 log <sub>10</sub>               |
| * Laryngotracheitis (LT-IVAX)   |               | A<br>B | 4.75 log <sub>10</sub><br>≥4.75 log <sub>10</sub>            |
| * Newcastle Disease Virus (strain H.J. Roakin, 1946)                    |               | A<br>B | ≥5.5 log <sub>10</sub><br>≥5.5 log <sub>10</sub>             |
| * Pandemic 2009 H1N1 Influenza A Virus                                  |               |        | (Refer to NOTE below)  |
| * Porcine Respiratory & Reproductive Syndrome Virus (PRRSV strain NVSL) |               | A<br>B | ≥5.75 log <sub>10</sub><br>≥5.75 log <sub>10</sub>           |
| * SARS associated Coronavirus (ZeptoMetrix)                             |               | A<br>B | 4.03 log <sub>10</sub><br>4.03 log <sub>10</sub>             |
| † Vaccinia (Wyeth)  |               | A<br>B | 3.5 log <sub>10</sub><br>3.5 log <sub>10</sub> <sup>ss</sup> |

**Conclusion:** Under the conditions of this investigation, Vestec™ 220 10% Solution demonstrated virucidal activity against Adenovirus Type 5, Avian Influenza A/Turkey/Wisconsin, Bovine Viral Diarrhea Virus (BVDV), Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (Sabin), Human Coronavirus, Human Immunodeficiency Virus (HIV-1), Influenza A2 (Japan 305/57), Laryngotracheitis, Newcastle Disease Virus, Pandemic 2009 H1N1 Influenza A Virus, Porcine Respiratory & Reproductive Syndrome Virus (PRRSV), SARS associated Coronavirus and Vaccinia (Wyeth) according to criteria established by the U. S. Environmental Protection Agency for registration and labeling of a disinfectant product as a virucide.

**NOTE:** Per the EPA guidance document dated October 21, 2009, disinfectant products that bear label claims against human, avian, or swine influenza A virus, and have submitted and received approval of efficacy data to support these label claims, may include a label claim against the Pandemic 2009 H1N1 Influenza A Virus.

## SANITIZATION DATA (FOOD CONTACT SURFACES):

**Test Method:** AOAC Germicidal and Detergent Sanitizing Action of Disinfectants

**Test Conditions:** Synthetic hard water as 650 ppm hardness (as CaCO<sub>3</sub>) 200 ppm active quaternary (public eating establishments and dairies) 200-400 ppm active quaternary (food processing equipment/utensils) 1-2 ounces/4 gallon dilution.

### Results:

### TOTAL BACTERIAL COUNTS/ % KILL vs. EXPOSURE TIME

| Organism  | Sample | 30 Seconds |          | 60 Seconds |          | Initial Inoculum<br>Control Count |
|---|--------|------------|----------|------------|----------|-----------------------------------|
|   |        | TBC*       | % Kill † | TBC*       | % Kill † |                                   |
| Staphylococcus aureus<br>(ATCC 6538)                        | A      | 970        | 99.999   | 105        | 99.999   | 7.8 X 10 <sup>7</sup>             |
|   | B      | 1285       | 99.999   | 205        | 99.999   | 9.2 x 10 <sup>7</sup>             |
|   | C      | 1145       | 99.999   | 130        | 99.999   | 9.3 x 10 <sup>7</sup>             |
| Escherichia coli<br>(ATCC 11229)                            | A      | 1125       | 99.999   | 50         | 99.999   | 1.0 x 10 <sup>8</sup>             |
|   | B      | 1075       | 99.999   | 95         | 99.999   | 9.3 x 10 <sup>7</sup>             |
|   | C      | 835        | 99.999   | 75         | 99.999   | 8.1 x 10 <sup>7</sup>             |
| Campylobacter jejuni<br>(ATCC 29428)                        | A      | 790        | 99.999   | 410        | 99.999   | 8.6 x 10 <sup>7</sup>             |
|   | B      | 780        | 99.999   | 470        | 99.999   | 8.6 x 10 <sup>7</sup>             |
| Escherichia coli 0157:H7<br>(ATCC 43895)                    | A      | 1220       | 99.999   | 110        | 99.999   | 9.2 x 10 <sup>7</sup>             |
|   | B      | 1000       | 99.999   | 125        | 99.999   | 9.2 x 10 <sup>7</sup>             |
| Listeria monocytogenes<br>(ATCC 35152)                      | A      | <10        | >99.999  | <10        | >99.999  | 7.8 x 10 <sup>8</sup>             |
|   | B      | <10        | >99.999  | <10        | >99.999  | 7.8 x 10 <sup>8</sup>             |
| Methicillin resistant<br>Staphylococcus aureus (ATCC 33592) | A      | 950        | 99.999   | <10        | >99.999  | 1.0 x 10 <sup>8</sup>             |
|   | B      | 970        | 99.999   | <10        | >99.999  | 1.0 x 10 <sup>8</sup>             |
| Salmonella typhi<br>(ATCC 6539)                             | A      | <10        | >99.999  | <10        | >99.999  | 1.4 x 10 <sup>8</sup>             |
|   | B      | <10        | >99.999  | <10        | >99.999  | 1.4 x 10 <sup>8</sup>             |
| Shigella sonnei<br>(ATCC 11060)                             | A      | 680        | 99.999   | <10        | >99.999  | 9.3 x 10 <sup>7</sup>             |
|   | B      | 4500       | 99.999   | <10        | >99.999  | 9.3 x 10 <sup>7</sup>             |
| Vancomycin resistant<br>Enterococcus faecalis (ATCC 51299)  | A      | <10        | >99.999  | <10        | >99.999  | 1.2 x 10 <sup>8</sup>             |
|   | B      | <10        | >99.999  | <10        | >99.999  | 1.2 x 10 <sup>8</sup>             |

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