



## Virusolve<sup>®</sup> + Wipes

# Specialized Cleaning and High Level Disinfecting Impregnated Wipes Technical Information

### Description & Application:

The pre-impregnated wipe product is a family of tissue wipes that has been impregnated with a 10% solution of Virusolve+, a complex blend containing the latest dodecylamine based structures, solvents and fully non-toxic, biodegradable detergent. The formulation does not contain any hazardous aldehydes or chlorine generating components.

Virusolve+ is highly effective as a cleaner and terminal high level disinfectant (HLD) against bacteria, bacterial spores, fungi and viruses. The product is designed to eliminate the risk of cross-infection from viruses, fungi and bacteria. Virusolve+ does not simply render the microorganisms inert but has been demonstrated to kill these by disrupting the RNA of the microorganisms.

The wipes are safe to use on any surface and are odourless and non-staining.

Primary features attributable to Virusolve+ Wipes are:

- Suitable for high level disinfection and cleaning, contains powerful germicides;
- Low toxicity, does not contain chlorine or aldehyde compounds;
- Highly effective over a wide range of viruses, bacteria, fungi, yeasts and moulds, including MRSA, Hepatitis B and HIV agents;
- Highly effective against bacterial spores;
- Effective against the difficult non-enveloped type viruses such as Polio, Adenovirus and Norovirus;
- Non-selective;
- Versatile, simple to use and cost effective;
- Powered by Virusolve+ that is approved by accredited laboratories.

### Applications

Virusolve+ is ideal for removing biohazards in hospitals, health centres, dentists, vets, nursing homes, laboratories, food preparation areas and any environment where the risk of cross-infection needs to be eliminated, e.g. cruise ships.

Virusolve+ is suited for cleaning and disinfection of hard surfaces, walls, floors, glasswork and contaminated laundry.

It can also be used to disinfect medical and surgical instrumentation.

It can also be used to disinfect hairdressing equipment.



Certificate No. GB06/69741



Certificate No. GB06/69740

CE  
0120

Certificate No. GB06/69739

**Infection  
Controlled**

## **Compatibility**

Virusolve+ is compatible with a wide range of fabrics, rubbers, plastics and hard surface materials.

## **Order Information**

Virusolve+ Wipes can be made available as a fragrant grade on special request but will be subject to a minimum order quantity.

4 versions are currently available to order:

- Lavender version      order code - L
- Lemon version        order code – LE
- Orchid version        order code - O
- Pine version         order code - P

Users should specify the required fragrance at time of order otherwise the non-fragrant version will be supplied.

## **Health and Safety**

Virusolve+ wipes solution is not flammable and is neither a known or suspected carcinogen, is non-hypoallergenic, and is fully biodegradable.

Virusolve+ is certified as being non-fuming and non-hazardous when used according to the specified user directions.

Virusolve+ is intended for external use only.

See Safety Data Sheets for details.

## **Typical Properties**

Appearance	colourless liquid
Odour	Slight amine (fishy) odour
pH,	11.6
Density, g/cm <sup>3</sup> @ 20 °C	1.00 to 1.02
Solubility in water	Complete
Flash Point (Abel closed cup)	None

## **Shelf Life of Ready-to-Use Wipes**

3 years in unopened original containers when stored between 5 °C and 35 °C out of direct sunlight.

Virusolve+ in contrast to other disinfectants is capable of penetrating the outer membranes of the bacteria and viruses and as a result renders the genome material within the cell inactive. This is in contrast to other disinfectants in the marketplace that are composed of chemicals that may well inactivate the cells for a period of time, preventing growth, but after a period the cells will regenerate and multiply.

Virusolve+ will inactivate the cell to the point where the RNA is destroyed and therefore preventing replication.

Virusolve+ will also attack all single strand transcriptase positive and transcriptase negative viruses within similar families.

Virusolve+ has been thoroughly tested by independent laboratories and demonstrated to be effective against gram negative and gram positive bacteria, viruses and fungi/yeasts.

Efficacy data has been raised against the following specific organisms:

Bacteria:

- Acinetobacter calcoaceticus
- Acinetobacter baumannii
- Bacillus stearothermophilus

Bacillus cereus  
Campylobacter jejuni  
Clostridium difficile  
Clostridium perfringens  
Enterobacter sakazakii  
Enterococcus hirae  
Enterococcus faecalis Vancomycin Resistant (VRE)  
Escherichia coli  
Escherichia coli ESBL (Extended Spectrum beta-Lactamases)  
Escherichia coli - O157 Strain  
Klebsiella pneumonia  
Legionella pneumophila (Sero Group 1)  
Listeria monocytogenes  
Methicillin resistant Staphylococcus aureus (MRSA)  
Pseudomonas aeruginosa  
Salmonella typhimurium  
Serratia marsescens  
Shigella sonnei  
Stenotrophomonas maltophilia  
Staphylococcus aureus  
Vibrio parahaemolyticus  
Yersinia enterocolitica

Mycobacterium terrae (Note – has been used for testing against TB)  
Mycobacterium tuberculosis  
Mycobacterium avium

Viruses: -

Avian flu (Bird Flu – Strain H5N1)  
Hepatitis B and C  
HIV-1 virus  
Influenza virus (Strain H3N2)  
Parainfluenzae 3 virus,  
Polio virus  
Vaccinia virus,  
Feline Calicivirus (Human norovirus surrogate)  
Feline Coronavirus (human surrogate for SARS)  
Adenovirus

Spores:-

Bacillus cereus  
Bacillus subtilis  
Clostridium difficile  
Clostridium perfringens

Fungi and Yeasts: -

Aspergillus niger  
Aspergillus fumigatus  
Candida albicans  
Microsporum canis  
Microsporum gypseum  
Trichophyton equinum  
Trichophyton mentographytes



## **Directions for Use**

Pre-impregnated Virusolve+ wipes are supplied in containers and are ready to use direct from the container.

### Application:

#### **General Surface Cleaning and Healthcare Environment:**

Take a wipe and wipe gently over the whole area to be cleaned. Allow a minimum contact time of 1 minute before wiping clean to remove grease, blood and organic debris.

Removal of stubborn deposits may be assisted by the use of a stiff bristle brush.

Wipe the surface with a damp cloth of water to remove residues of Virusolve+.

Note: Food preparation surfaces should be allowed to dry before use.

#### **For Disinfection of medical, surgical and dental instruments and equipment (Manual procedure):**

Wipe all surfaces of the instrument (preferably disassembled, where applicable) using a pre-impregnated Virusolve+ Wipe and allow the fluid to remain in contact for at least 5 minutes.

Examine the instrument and wipe or brush clean to remove debris that remains.

Rinse treated instrument in sterile, cold water and allow to dry.

Replace used Virusolve+ wipes frequently **or when** gross soiling of the wipe becomes evident.

#### **Animals:**

Areas where animals are kept should be regularly cleaned and disinfected using diluted Virusolve+ to ensure good animal welfare.

**CONTACT DETAILS:****For UK and Rest of the World:**

Amity International,  
 Libra House, West Street  
 Worsbrough Dale,  
 BARNSELY  
 S YORKS, S70 5PG,  
 ENGLAND

Tel: +44 (0) 1226 770787

Fax: +44 (0) 1226 291936

**For North America:**

Amity International,  
 PO Box 5254,  
 1704 Denver Road,  
 ANDERSON,  
 SOUTH CAROLINA,  
 SC29623, USA.

Tel: 864 622 2233

Fax: 864 622 2234

**E-mail:** [sales@amityinternational.com](mailto:sales@amityinternational.com)

**Web site:** [www.amityinternational.com](http://www.amityinternational.com)

For any further information, please contact your distributor or Amity.

In the event of any technical queries, please contact:  
 Mr. Ram Singh at the UK/ROW address, above, or by e-mail to:

[rsingh@amityinternational.com](mailto:rsingh@amityinternational.com)

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**Packaging Details:**

Virusolve+ wipes are available in the following packaging.  
 Users will need to specify requirements on their order.

As a Pre-impregnated RTU Wipe in:

- Tub of 50 sheets (130mm x 200mm, 35 gsm) (case of 12 tubs); MOQ applies
- Pillow pack of 50 sheets (200mm x 280mm, 35 gsm) (case of 10 packs); MOQ applies
- Tub of 100 sheets (200mm x 280mm, 35 gsm) (case of 6 tubs); MOQ applies
- Bucket of 225 sheets (250mm x 300mm, 25 gsm) ecopack (MOQ applies - 4 buckets)
- Tub of 225 sheets (210mm x 195mm; 18gsm TRITEX) (minimum order case of 10 tubs);
- Flow wrap of 200 sheets (300mm x 200mm, 31gsm) (minimum order case of 6 units).
- Bucket of 500 sheets (200mm x 230mm, 35 gsm); MOQ applies
- Bucket of 800 sheets (200mm x 230mm, 28 gsm) for Food Industry sector use; MOQ applies

Sheets are white in colour except the 800 size bucket for Food Industry use which are blue in colour.  
 Note MOQ = Minimum Order Quantity

## **Approval and Test Data for Virusolve+**

### **1. Approvals.**

- 1.1 Virusolve+ has been satisfactorily tested by leading laboratories for viral, bacterial and fungi testing.
- Micropathology Ltd, Coventry;
  - H.I.R.L (Hospital Infection Research Laboratory) City Hospital Birmingham
  - Bodycote Materials Testing, Law Laboratories, Birmingham.
  - Texcell Laboratory (Part of Institute Pasteur®), Paris, France
  - Health Protection Agency, UK.
  - Retroscreen Virology Ltd (Queen Mary Hospital, University of London)
- 1.2 Virusolve+ has been satisfactorily tested as a disinfectant and approval granted by the UK Department for Environment, Food and Rural Affairs (DEFRA) for the following:
- General Orders, as defined in the Diseases of Animals (Approved Disinfectant) Order 1978 at a dilution of 1 part disinfectant to 19 parts of water.
  - The Disease of Poultry Order and The Avian Influenza and Influenza of Avian Origin in Mammals Order at a dilution rate of 1 part disinfectant to 9 parts of water.

### **2. Test compliance**

- 2.1 Testing carried out according to;
- BS6471,
  - BS6424,
  - BS6905,
  - EN1275
  - EN1276
  - EN13704
  - EN13727
  - EN14347
  - EN14348
  - EN13697
  - EN13704
  - EN14476
  - EN14561
  - EN14562
  - EN14563
  - EN16615 and
  - AFNOR (EC) procedures.
- 2.2 Virusolve+ has been tested for bactericidal efficacy according to BS EN 1276 (European Suspension Test) and demonstrates a > log 5 reduction in counts at 20 °C for all three time intervals selected.
- 2.3 Basic fungicidal and yeactical activity tested in accordance with BS EN 1275 (European Suspension Test) and demonstrates a > log 5 reduction in counts at 20 °C after 1, 2 and 5 minute contact times.
- 2.4 Sporicidal Efficacy tested in accordance with BS EN 14347 and achieved >5 log 10 reduction in all test organisms for all contact times down to 1 minute.
- 2.5 Sporicidal Efficacy tested in accordance with BS EN 13704 and achieves a >3 log 10 reduction in all test organisms for all contact times down to 1 minute.
- 2.6 Virucidal activity tested according to norm NFT 72-180 and passes requirement (> 4 log 10 reduction at 1 minute exposure).
- 2.7 Bactericidal Efficacy for disinfection of medical instruments tested in accordance with BS EN 13727 and achieved >5 log 10 reduction in all test organisms.
- 2.8 Bactericidal and Fungicidal Efficacy in food, industrial and institutional areas tested in accordance with BS EN 13697 and achieved >5 log 10 reduction within a 5 minute contact time.
- 2.9 Complies with BS ISO 4120:2004, food taint test.
- 2.10 Feline calicivirus (Human norovirus surrogate), polio virus and adenovirus tests carried out in accordance with test standards EN 14476.
- 2.11 Bactericidal efficacy against Mycobacterium tuberculosis established using BS EN 14348.