



Rely+On™ Virkon®

POWERFUL BROAD SPECTRUM
VIRUCIDAL DISINFECTANT

- Unique formulation
- Effective against a broad spectrum of disease-causing pathogens
- For use in medical facilities, pathology and biosafety containment laboratories, treatment salons and residential homes



The miracles of science™

The broad spectrum formulation of Rely+On™ Virkon® is unique. No other disinfectant has the same powerful composition or extensive portfolio of performance and safety testing data. It combines application flexibility with broad spectrum efficacy, on hard surfaces, and in the face of organic challenge. These qualities make Rely+On™ Virkon® the disinfectant of choice for use in medical facilities, pathology and biosafety containment laboratories, treatment salons and residential homes.



Hygiene in the care environment

Superior Operator Safety Profile

Rely+On™ Virkon® has fewer handling and use constraints than many other disinfectant products and is not classified as harmful or a sensitizer in both powdered form and in-use dilutions, in accordance with EU legislation on the classification and labelling of chemical preparations.

Environmental Profile

The Rely+On™ Virkon® oxygen-based chemistry contains simple organic salts and organic acids and the active ingredient decomposes by a variety of routes within the environment, in soil and water, breaking down to form the naturally occurring substances, potassium salts and oxygen. The major organic components are classified as readily biodegradable according to OECD and EU tests.

Rely+On™ Virkon® is not classified as R53* and is not persistent in the environment, according to the standard European process for the classification and labelling of chemical preparations. Independent studies have shown that diluted Rely+On™ Virkon® should not, when used as directed, pose any threat to sewage treatment facilities.

Mode of Action

Rely+On™ Virkon® oxidizes key structures and compounds, such as proteins, leading to widespread, irreversible damage and subsequent deactivation/destruction of the microorganism.

There is no evidence to suggest that bacterial disease-causing organisms develop resistance towards Rely+On™ Virkon® as opposed to some other disinfectant types.

* may cause long term adverse effects in the aquatic environment.



Laboratory disinfection

Proven Broad Spectrum Efficacy

Independently proven highly effective against:

- over 100 strains of virus in 22 viral families
- over 400 strains of bacteria
- over 60 strains of fungi and yeast

using a wide variety of contact times, temperatures and organic challenge levels.

Applications

Medical Facilities

- Routine disinfection of hard surfaces, furniture, floors, walls and doors in hospital wards, clinics and laboratories.
- Broad spectrum disinfection and decontamination of hard surfaces in critical clinical facilities, such as operating theatres, intensive care units and accident and emergency departments.
- Body fluid spillage clear-up and decontamination.

Pathology and Biosafety Containment Laboratories

- Routine cleaning and disinfection of hard surfaces and equipment*, such as benches, floors, walls and doors, cabinets, centrifuges and pipette discard jars.

Treatment Salons

- Routine cleaning and disinfection of hard surfaces such as floors, walls and doors.

Residential Homes

- Routine disinfection of hard surfaces, equipment*, furniture, floors, walls and doors in treatment and communal areas, corridors and bathrooms.

*not for use for the disinfection of medical devices.

Easy to Prepare

Readily soluble in tap water, Rely+On™ Virkon® dissolves into a pink solution, which activates within 5 minutes and remains stable for up to 5 days, as a 1:100 solution. Consult DuPont for advice on stability for any alternate strength solutions.

Unused or inactive solutions may be disposed of via the sink (leading to waste water treatment facilities and in accordance with local regulations).

Hard Surface & Equipment Cleaning & Disinfection

The level of disease causing organisms present after general cleaning can remain high enough to offer a serious disease challenge to patients and staff. Using a disinfectant proven to be effective against viruses, bacteria and fungi, such as Rely+On™ Virkon®, is essential.

Task	Dilution Rate	Application
Hard Surface Disinfection	1:100 (10 grams of Rely+On™ Virkon® to every litre of water)	Apply disinfectant solution using either a trigger spray bottle, cloth, sponge or floor mop.
Equipment Disinfection (not medical devices)	1:100 (10 grams of Rely+On™ Virkon® to every litre of water)	Suitable equipment can either be submerged and washed in disinfectant solution or sprayed and then wiped clean with a cloth or sponge. Rinse disinfected equipment with clean water after 10 minutes when materials compatibility is of concern. Refer to the product Instruction for Use Leaflet (IFU) for further specific information.

Presentations

Rely+On™ Virkon® Powder

- 50 gm sachet – makes 5 litres of disinfectant
- 500 gm container – makes 50 litres of disinfectant
- 5 Kg drum – makes 500 litres of disinfectant

Rely+On™ Virkon® Tablets

Convenient to store and easy to handle; simplifies accurate dosing of a disinfectant solution.

- 10 x 5 gm tablets – makes 5 litres of disinfectant
- 50 x 5 gm tablets – makes 25 litres of disinfectant



Rely+On™ Virkon®

The table below summarises independent efficacy data of Rely+On™ Virkon® against important disease-causing pathogens.

Virucidal Efficacy

Organism/Disease	Strain	Dilution Rate
Adenovirus (h5)	Type 5 ATCC VR-5	1:100
Adenovirus	Type 5 (EN14476)	1:100
Bacteriophages	Strep. lactis bacteriophage 66	1:500
	Bacteriophage T2 with E.coli	1:500 – 1:4000
	Bacteriophage MS2 with E.coli	1:500 – 1:4000
	Bacteriophage OX174 with E.coli	1:500 – 1:4000
Coronavirus Middle East Resp. Syndrome (MERS)	ATCC VR-740	1:100
Feline calicivirus (surrogate for Norwalk & norovirus)	ATCC VR-782	1:100
Hepatitis A	Sattar	1:100

Organism/Disease	Strain	Dilution Rate
Hepatitis B	DHBV	1:100
Hepatitis C	BVDV ATCC CCL-222	1:100
HIV	Type 1	1:100
Influenza A virus	ATCC VR-544	1:100
Orthopox virus	–	1:100
Poliovirus	Type 1 LSc2ab	1:100
Poliovirus	Type 1 (EN14476)	1:100
Respiratory syncytial virus	ATCC VR-26	1:100
Rotavirus	Human Strain	1:250

Bactericidal Efficacy

Organism/Disease	Strain	Dilution Rate
Actinobacillus pleuropneumoniae	ATCC 43336	1:100
Bacillus cereus (veg)	ATCC 14579	1:100
Bacillus subtilis (veg)	NCTC 10073	1:100
Campylobacter jejuni	ATCC 24929	1:100
Chlamydia psittaci	VR-125 (strain 6BC)	1:100
Clostridium perfringens (veg)	ATCC 13124	1:100
Coxiella burnetii	Nine mile (RSA 493)	1:100
Dermatophilus congolensis	ATCC 14637	1:100
Escherichia coli 0157	ATCC 43895	1:100
Escherichia coli	CIP 54.127	1:200
Escherichia coli	EcFH64/a	1:100
Escherichia coli	NCTC 8196	1:100
Enterococcus hirae	CIP 58.55	1:200
Enterococcus hirae	EhFH64/a	1:100
Enterococcus faecium	ATCC10541	1:100
Legionella pneumophila	NCTC 1192	1:5000
Listeria monocytogenes	ATCC 19117	1:100
Listeria monocytogenes	LMFH66/a	1:100
Klebsiella pneumoniae	ATCC 4352	1:100
Pasteurella multocida	ATCC 12947	1:100
Proteus mirabilis	ATCC 14153	1:100
Ps. aeruginosa	ATCC 15442	1:100
Ps. aeruginosa	CIP 103467	1:200

Organism/Disease	Strain	Dilution Rate
Ps. aeruginosa	ATCC 15442	1:100
Ps. aeruginosa	CIP A22	1:100
Ps. aeruginosa	NCTC 6749	1:200
Ps. aeruginosa	PaFH72/a	1:100
Proteus vulgaris	NCTC 4635	1:100
Salmonella enteritidis	CVI – WVR – Lelystad	1:200
Salmonella typhimurium	DT104	1:200
Salmonella typhimurium	ATCC 23564	1:100
Salmonella typhimurium	SEFH68a	1:100
Shigella sonnei	ATCC 25931	1:100
Staphylococcus aureus	ATCC 33592 (MRSA)	1:100
Staphylococcus aureus	ATCC 6538	1:100
Staphylococcus aureus	NCTC 4163 (MRSA 2 clinical isolates)	1:100
Staphylococcus aureus	CIP 4.83	1:200
Staphylococcus aureus	SaFH73/a	1:100
Staphylococcus aureus	MRSA, Swine origin	1:100
Staphylococcus epidermidis	ATCC 12228	1:100
Streptococcus faecalis	NCTC 775	1:100
Streptococcus pyogenes	ATCC 11229	1:100
Streptococcus suis	CB194	1:150
Streptococcus suis	ATCC 43765	1:100

Fungicidal/Yeasticidal Efficacy

Organism/Disease	Strain	Dilution Rate
Aspergillus niger (spores)	AnFH85/a	1:33
Candida albicans	CaFH69/a	1:40
Candida albicans	Gbl 648	1:100
Candida albicans	LMFL 985	1:100

Organism/Disease	Strain	Dilution Rate
Fusarium moniliforme	ATCC 10052	1:50
Saccharomyces cerevisiae	ScFH68/a	1:40
Trichophyton mentagrophytes	ATCC 9533	1:50

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