

Hadron's virucidal cleaner is suitable for multiple surfaces and is a vital product to combat cross infection. Ideal for use in hospitals, nursing homes, schools, hotels, dental and medical surgeries, offices, hospitality outlets, sports facilities and many other areas.

Certifications include:

EN1276, EN13697, EN14476, EN13727, -

5 mins (including MRSA, E.Coli, Norovirus, Influenza and Coronavirus)

For Coronavirus, leave the product in contact with the surface for 1 minute before wiping off.

EN1650 - 10 mins, EN13610, EN14561 - 15 mins

EN1657, EN16438, EN14675 - 30 mins

Test Data:

Food, Industrial and Institutional Areas

Activity Claim: Bactericidal

EN 1276

Bactericidal result (log 5), in presence of high organic load (BSA)

Test strains: E . coli ATCC 10536, S. aureus ATCC 6538, E . hirae ATCC 10541, P. aeruginosa ATCC 15442

Result 3.0 g/l BSA 5 min.

Result 10.0 g/l Skimmed milk 5 min.

Result 10.0 g/l Sucrose 5 min.

Result 10.0 g/l Yeast extract 5 min.

Certificate: Eurofins, 31 May 2016

EN 1276 (MRSA)

Bactericidal result (log 5), in presence of high organic load (BSA)

Test strain: S. aureus MRSA ATCC 33592

Result 3.0 g/l BSA 5 min.

Certificate: L + S AG, June 2010

EN 1276

Bactericidal result (log 5), in presence of high organic load (BSA)

Test strains: L. monocytogenes ATCC 15313, S. typhimurium ATCC 13311 Result 3.0 g/l BSA 5 min.

Certificate: Dr. Brill + Partner GmbH, 24 February

2017

EN 13697

Bactericidal result (log 4), in presence of high organic load (BSA)

Test strains: E . coli ATCC 10536, S. aureus ATCC 6538, E . hirae ATCC 10541, P. aeruginosa ATCC 15442

Result 3.0 g/l BSA 5 min.

Certificate: Eurofins-Biolab Spa, 30 July 2007

EN 13697

Bactericidal result (log 4), in presence of high organic load (BSA)

Test strain: L. monocytogenes ATCC 15313

Result 3.0 g/l BSA 5 min.

Test strain: S. typhimurium

Result 3.0 g/l BSA 5 min.

Certificate: Dr. Brill + Partner GmbH, 24 February

2017

EN 1276

Bactericidal result (log 5), in presence of low organic load (BSA)

Test strains: S. aureus ATCC 6538, E . coli ATCC 10536, E . hirae ATCC 10541, P. aeruginosa ATCC 15442

Result 0.3 g/l BSA 10 min

Certificate: Dr. Brill + Partner GmbH, 14 March

2018

EN 1276 (modified)

Bactericidal result (log 4), in presence of low organic load (BSA)

Test strain: L. interrogans (Weil's disease)

Result 0.3 g/l BSA 5 min.

Certificate: Blue Scientific Test Data, August 2009

EN 13697

Bactericidal result (log 4), in presence of low organic load (BSA)

Test strains: S. aureus ATCC 6538, E . coli ATCC 10536, E . hirae ATCC 10541, P. aeruginosa ATCC 15442

Result 0.3 g/l BSA 15 min .

Result 0.3 g/l BSA + 8.5 g/l skimmed milk for P.

aeruginosa 10 min. Certificate: Dr. Brill + Partner GmbH, 14 March 2018

Activity Claim: Yeasticidal

EN 1650

Yeasticidal result (log 4), in presence of high organic load (BSA)

Test strain: C. albicans ATCC 10231

Result 3.0 g/l BSA 15 min.

Certificate: Eurofins, 31 May 2016

EN 13697

Yeasticidal result (log 3), in presence of high organic load (BSA)

Test strain: *C. albicans* ATCC 10231

Result 3.0 g/l BSA 15 min.

Certificates: Eurofins, 31 May 2016

EN 16615

Yeasticidal results (log 4), in presence of high medical organic load (BSA + Erythrocytes)

Test strains: *C. albicans* ATCC 10231

Result 3.0g/l BSA + 3.0g/l Erythrocytes 1 min.

Certificate: Dr. Brill + Partner GmbH, 28 July 2017

EN 1650

Yeasticidal result (log 4), in presence of low organic load (BSA)

Test strain: *C. albicans* ATCC 10231

Result 0.3 g/l BSA 10 min

Certificate: Dr. Brill + Partner GmbH, 14 March 2018

EN 13697

Yeasticidal result (log 3), in presence of low organic load (BSA)

Test strain: *C. albicans* ATCC 10231

Result 0.3 g/l BSA 10 min

Certificate: Dr. Brill + Partner GmbH, 14 March 2018

Activity Claim: Virucidal**EN 13610**

Virucidal activity against bacteriophages in presence organic load (1 % skimmed milk)

Results: *Lactococcus lactis* subsp. *lactis* phage P001 15 min. *Lactococcus lactis* subsp. *lactis* phage P008 15 min.

Certificate: Dr. Brill + Partner GmbH, 25 February 2014

Certificate: Dr. J. Steinmann, MikroLab, 27 July 2010

2014

Certificate: Dr. J. Steinmann, MikroLab, 27 July 2010

2010

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA) and high medical organic load (BSA + Erythrocytes)

Test strain: Murine Norovirus strain S99 Berlin

Result 0.3 g/l BSA 5 min.

Result 3.0 g/l Erythrocytes 15 min.

Certificate: Dr. J. Steinmann, MikroLab, 1 April 2014

cytes 15 min.

Certificate: Dr. J. Steinmann, MikroLab, 27 July 2010

2010

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA) and high medical organic load (BSA + Erythrocytes)

Test strain: Adenovirus Type 5 strain Adenoid 75

Result 0.3 g/l BSA 15 min.

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 15 min.

Certificate: Dr. J. Steinmann, MikroLab, 27 July 2010

2010

EN 14476:2013+A1:2015

Virucidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)

Test strain: Modified Vaccinia Virus Ankara (MVA)

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.

Certificate: Dr. Brill + Partner GmbH, Bremen, 7 February 2017

February 2017

EN 14476

Virucidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)

Test strain: Influenza A (H1N1) Virus

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.

Certificate: Dr. Brill + Partner GmbH, Bremen, 8 February 2017

February 2017

EN 14476:2013+A1:2015

Yeasticidal result (log 4), in presence of high organic load (BSA)

Test strain: *C. albicans* ATCC 10231

Result 3.0 g/l BSA 15 min.

Certificate: Eurofins, 31 May 2016

Veterinary Areas**Activity Claim: Bactericidal****EN 1656**

Bactericidal result (log 5), in presence of high veterinary organic load

(Yeast Extract + BSA) at 10°C

Test strains: *P. aeruginosa* ATCC 15442, *S. aureus* ATCC 6538, *E. hirae* ATCC 10541 and *P. vulgaris* ATCC 13315

Result 10.0 g/l Yeast extract + 10.0g/l BSA 30 min.

Certificate: Eurofins, 31 May 2016

Activity Claim: Yeasticidal**EN 1657**

Yeasticidal result (log 4), in presence of high veterinary organic load (Yeast Extract + BSA) at 10°C

Test strain: *C. albicans* ATCC 10231

Result 10.0 g/l Yeast extract + 10.0g/l BSA 30 min.

Certificate: Eurofins, 31 May 2016

EN 16438

Yeasticidal result (log 3), in presence of high veterinary organic load (Yeast Extract + BSA) at 10°C

Test strain: *C. albicans* ATCC 10231

Result 10.0 g/l Yeast extract + 10.0g/l BSA 30 min.

Certificate: Dr Brill + Dr Steinmann, 5 October 2016; Eurofins, 31 May 2016

Activity Claim: Virucidal**EN 14675**

Virucidal result (log 4), in presence of high-level soiling (Yeast Extract + BSA) at 10°C

Test strain: Modified Vaccinia Virus Ankara (MVA)

Result 10.0 g/l Yeast extract + 10.0g/l BSA 30 min.

Certificate: Dr. Brill + Partner GmbH, Bremen, 25 January 2017

Medical Areas**Activity Claim: Bactericidal****EN 13727**

Bactericidal result (log 5), in presence of high medical organic load (BSA + Erythrocytes)

Test strains: *S. aureus* ATCC 6538, *E. hirae* ATCC 10541, *P. aeruginosa* ATCC 15442

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.

Certificate: Eurofins, 17 June 2011

EN 13697

Bactericidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)

Test strains: *S. aureus* ATCC 6538, *E. hirae* ATCC 10541, *P. aeruginosa* ATCC 15442

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 60 min.

Certificate: Eurofins, 6 June 2016

EN 14561

Bactericidal result (log 5), in presence of low organic load (BSA)

Test strains: *S. aureus* ATCC 6538, *E. hirae* ATCC 10541, *P. aeruginosa* ATCC 15442

Result 0.3 g/l BSA 15 min.

Certificate: Eurofins, 23 September 2011

Activity Claim: Yeasticidal**EN 13624**

Yeasticidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)

Test strain: *C. albicans* ATCC 10231

Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.

Certificate: Eurofins, 31 May 2016

EN 13697

Yeasticidal result (log 3), in presence of high medical organic load (BSA + Erythrocytes)
Test strain: C. albicans ATCC 10231
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.
Certificate: Eurofins, 6 June 2016

EN 14562

Yeasticidal result (log 4), in presence of low organic load (BSA)
Test strain: C. albicans ATCC 10231
Result 0.3 g/l BSA 15 min.
Certificate: Eurofins, 23 September 2011

EN 16615

Yeasticidal results (log 4), in presence of high medical organic load (BSA + Erythrocytes)
Test strains: C. albicans ATCC 10231
Result 3.0g/l BSA + 3.0g/l Erythrocytes 1 min.
Certificate: Dr. Brill + Partner GmbH, 28 July 2017

Activity Claim: Full Virucidal

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA)
Test strain: Poliovirus Type 1 strain LSc-2ab
Result 0.3 g/l BSA 30 min.
Certificates: Dr. J. Steinmann, MikroLab, 27 July 2010

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA) and high medical organic load (BSA + Erythrocytes)
Test strain: Adenovirus Type 5 strain Adenoid 75
Result 0.3 g/l BSA 15 min.
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 15 min.
Certificate: Dr. J. Steinmann, MikroLab, 27 July 2010

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA) and high medical organic load (BSA + Erythrocytes)
Test strain: Murine Norovirus strain S99 Berlin
Result 0.3 g/l BSA 5 min.
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 15 min.
Certificate: Dr. J. Steinmann, MikroLab, 1 April 2014

Activity Claim: Virucidal Against Enveloped Viruses

EN 14476:2013+A1:2015

Virucidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)
Test strain: Modified Vaccinia Virus Ankara (MVA)
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.
Certificate: Dr. J. Steinmann, Dr. Brill + Partner GmbH,, 7 February 2017

EN 14476

Virucidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)
Test strain: Influenza A (H7N9) Virus
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.
Certificate: Microbac Laboratory, (USA), 13 September 2013

EN 14476:2013+A1:2015

Virucidal result (log 4), in presence of high medical organic load (BSA + Erythrocytes)
Test strain: Influenza A (H1N1) Virus
Result 3.0 g/l BSA + 3.0g/l Erythrocytes 5 min.
Certificate: Dr. J. Steinmann, Dr. Brill + Partner GmbH, 8 February 2017

EN 14476

Virucidal result (log 4), in presence of low organic load (BSA)
Test strain: Bovine Corona Virus (BCoV) (as a surrogate for other members of the Coronavirus family including MERS-CoV)
Result 0.3 g/l BSA 1 min.
Certificate: Dr. J. Steinmann, MikroLab, 25 May 2014

Material Compatibility:

Suitable for hard washable surfaces. As surfaces vary in quality the product suitability should be checked by testing first on a small inconspicuous area. Aluminium, linoleum, acrylic glass or surfaces coated with polymers could be affected depending on the use concentration. Plasticized PVC could be discoloured. Usage of disinfectant followed by common rinse procedures is advised.

Compatibility Testing - Test conditions: submersion of material samples at 20°C for up to 30 days.

Samples of typical materials used for medical devices which were tested for material compatibility:

- Anodized aluminium
- Aluminium coated with powder technology
- Nickel plated mild steel
- Polished martensitic steel
- Stainless steel coated with gold
- Polyethylene
- Polymethacrylmethacrylate
- Composite material from tungsten carbide and nickel
- Polyvinylchloride flooring
- Flexible polyvinylchloride tube
- Two types of butyl rubber
- Optical glasses made from polycarbonate
- Optical glasses made from silicate