

New standard, EN 17430

Chemical Disinfectants and Antiseptics – Hygienic Handrub Virucidal – Test Method and Requirements (Phase 2/Step 2).

Purpose of the Standard:



EN 17430 introduces a practical test method using Norovirus to assess virucidal efficacy of handrubs, complementing EN 14476

Healthcare Relevance:

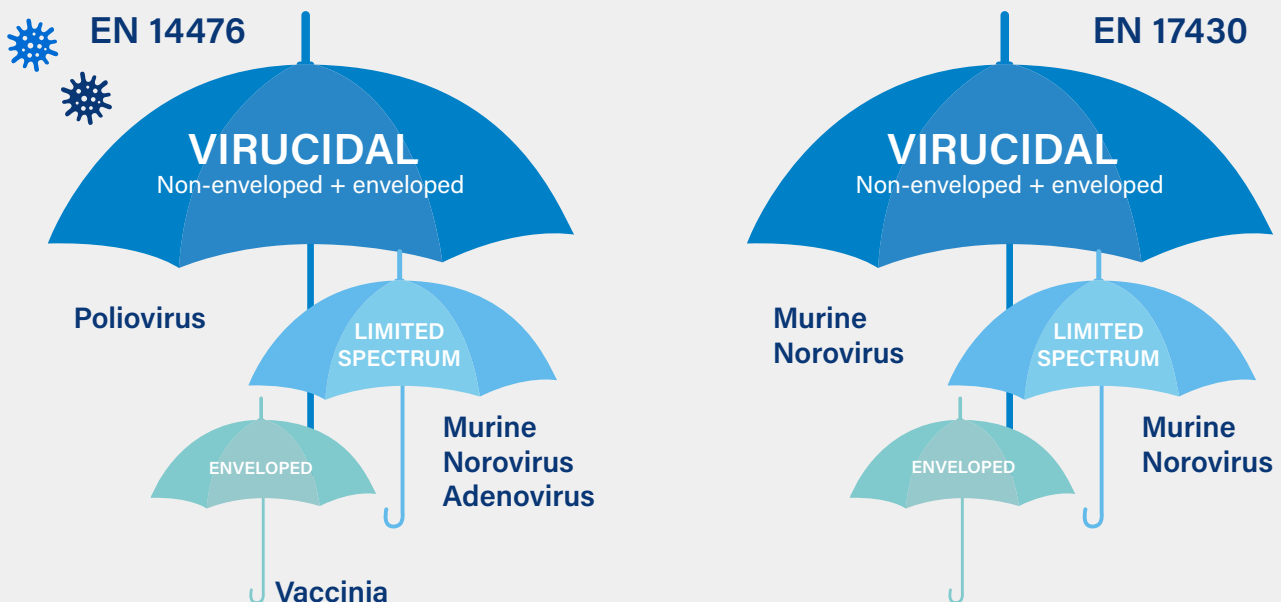
this standard improves infection prevention, patient safety, and professional hygiene

Enveloped virus

Non-enveloped virus

	<p>HIV, HBV, HCV, RSV, coronaviruses, influenza virus, HSV, CMV, EBV, mumps virus, measles virus, rubella virus</p>	
Enclosed in lipid envelope	Lack lipid envelope	
Sensitive to heat	Resistant to heat	
Less virulent	More virulent	
Sensitive to disinfectant	Resistant to disinfectant	
Active substances: all, even alcohols and QAC	Active substances: H2O2, PAA, more complex QAC	

European Standards - virucidal efficacy levels and test organisms





18 to 22
Washing of volunteers hands: 2 groups



Contamination of the hands of the volunteers: 500 µL NOROVIRUS

Reference Product (RP)

Prevalue (control)

Reference Product (RP)

Standard handrub procedure

Sampling after treatment test: In petri dishes with 5 ml of Liquid medium cell culture (2% FCS)

Wash volunteers hands and exchange product for the 2 groups

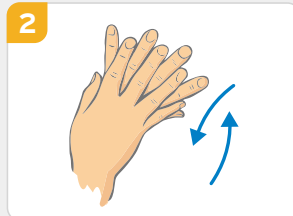
Standard hygienic handrub procedure

Follow steps 1 to 6. Perform each step five times.

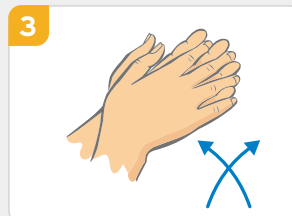
For the reference handrub apply 3 ml to the cupped hands and rub in. For the product under test follow the manufacturer's instructions regarding the contact time and eventual repeats.



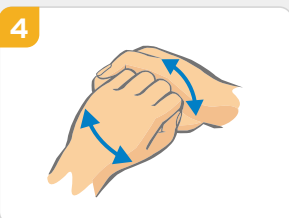
1 Palm to palm



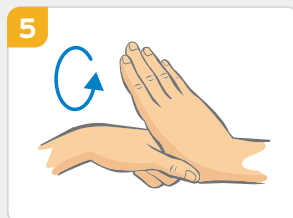
2 Right palm over the left dorsum and left palm over right dorsum



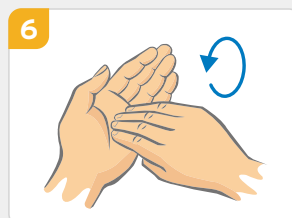
3 Palm to palm with fingers interlaced



4 Back of fingers to apposing palms, with fingers interlocked



5 Rotational rubbing of right thumb clasped in left palm and vice versa



6 Rotational rubbing backwards and forwards with clasped fingers of right hand in left palm and vice versa

Hygienic hand rub treatment

Test virus

Virucidal activity¹ - Murine Norovirus

Limited-spectrum

Virucidal activity² - Murine Norovirus

Contact time

According to manufacturer's recommendations, but between 30s and 60s

1. To claim virucidal activity, the product must comply with EN 14476 for Poliovirus, Adenovirus and Murine Norovirus.

2. To claim limited-spectrum virucidal activity, the product must comply with EN 14476 for Murine Norovirus and Adenovirus.

Transition period: key dates



Standard Published: March 2024

Compliance Deadline: 1 October 2025

Transition Period: Products manufactured before the deadline can still be used temporarily

Support



Contact your Ecolab sales representative for personalized guidance and support with implementing new protocols