

WHO recommended*
Hand-Rub formulation

SterloMaxTM E80

RUB-IN-HAND DISINFECTANT & SANITIZER



HEALTH[®]
TIGER

Alcohol-based hand disinfectants are the worldwide gold standard for hygienic hand disinfection. **SterloMaxTM E80** is a powerful ethanol-based hand sanitizer with high concentration Ethanol (80%) for instant hand hygiene and excellent virucidal activity.

0.2 Micron Filtered



Product Properties

- **SterloMaxTM E80** liquid hand rub
- Alcohol-based hand rub formula
- Excellent virucidal activity
- Disinfects and kills 99.99% of germs
- Rapid and effective disinfection within 30s
- Excellent skin tolerability
- Colourant- and fragrance-free

Composition

Active Ingredients

Ethanol IP	80% v/v
Glycerol IP	1.45% v/v
Hydrogen Peroxide IP	0.125% v/v
Purified Water IP	q.s.

Uniqueness of Ingredients

Ethanol:

Most commonly used disinfectant in hygienic and surgical hand rub preparations. Ethanol is active against vegetative bacteria, fungi, and lipid-containing viruses. Ethanol shows highest effectiveness at concentrations of approximately 70% (v/v) to 80% (v/v) in water: higher or lower concentrations may not be as germicidal.

Glycerol:

Serves as an emollient to protect skin against dryness, dermatitis and helps preserve skin moisture.

Hydrogen peroxide:

- A widely used biocide for disinfection, sterilization, and antisepsis
- Demonstrates broad-spectrum efficacy against viruses, bacteria, yeasts, and bacterial spores

Microbiology

- Comprehensive virucidal activity (both enveloped and non-enveloped viruses)
- Bactericidal
- Tuberculocidal
- Yeastcidal
- Mycobactericidal

*Ref: 1.Kramer A, et al. *Infect Control Hosp Epidemiol.* 2017;38(12):1430-1434.
2.Ribeiro MM, et al. *D Rev Lat Am Enfermagem.* 2015;23(4):741-752.

Areas of application

SterloMax E80 is a ready-to-use alcohol based rub-in product independent of water and wash basin, to prevent infection, in all areas of health care and industry, where hygiene is important. SterloMax E80 can be used ideally in the following situations

- For hand hygiene
- Surgical hand disinfection
- Disinfectant in treatment rooms, ICUs, clinics, outpatient ward and utility departments
- Disinfectant in ambulances, laboratories and dialysis centres

Directions

- Rub 3ml in hands for 30 seconds for hygienic hand disinfection
- Rub 6ml in hands for 90 seconds for surgical hand disinfection
- Make sure hands are completely covered during application time
- Please give special attention for finger tips and thumbs
- For children under 6, use only under adult supervision
- Not recommended for infants

The Antimicrobial Spectrum

80% Ethanol established broad spectrum of efficacy against wide range of bacteria, viruses and fungi, including SARS-CoV-2 or COVID-19 virus.

Invitro antimicrobial activity (Time Kill Study)

SN	Bacteria, Mycobacteria		Log10*	%
1	<i>Acinetobacter baumannii</i>	ATCC 19606	5.62	99.99976
2	<i>Acinetobacter lwoffii</i>	ATCC 15309	5.69	99.9998
3	<i>Bacteroides fragilis</i>	ATCC 25285	6.02	99.9999
4	<i>Burkholderia cepacia</i>	ATCC 25416	5.65	99.99978
5	<i>Candida albicans</i>	ATCC 10231	5.97	99.99989
6	<i>Clostridium difficile</i>	ATCC 9689**	6.02	99.9999
7	<i>Enterobacter aerogenes</i>	ATCC 13048	5.74	99.99982
8	<i>Enterobacter cloacae</i>	ATCC 1347	5.70	99.9998
9	<i>Enterococcus faecalis</i>	ATCC 29212	6.95	99.99999
10	<i>Enterococcus faecalis</i>	VRE, CI 99165	6.04	99.99991
11	<i>Enterococcus faecium</i>	ATCC 19434	6.94	99.99999
12	<i>Enterococcus faecium</i>	VRE, CI 99164	5.98	99.9999
13	<i>Escherichia coli</i>	ATCC 11229	5.82	99.99985
14	<i>Escherichia coli</i>	ATCC 25922	5.82	99.99985
15	<i>Escherichia coli</i>	0157:H7, CI 99166	6.02	99.9999
16	<i>Haemophilus influenzae</i>	ATCC 19418	6.97	99.99999
17	<i>Klebsiella oxytoca</i>	ATCC 43165	6.00	99.9999
18	<i>Klebsiella pneumoniae</i>	ATCC 11296	5.90	99.99987
19	<i>Listeria monocytogenes</i>	ATCC 7644	6.63	99.99998
20	<i>Micrococcus luteus</i>	ATCC 7468	5.70	99.9998
21	<i>Mycobacterium tuberculosis</i>	ATCC 27294	6.04	99.99991
22	<i>Mycobacterium tuberculosis</i>	MDR, CI 99282	6.86	99.99999
23	<i>Mycobacterium tuberculosis</i>	MDR, CI 99448	6.86	99.99999
24	<i>Proteus mirabilis</i>	ATCC 7002	5.86	99.99986
25	<i>Pseudomonas aeruginosa</i>	ATCC 15442	5.94	99.99989
26	<i>Pseudomonas aeruginosa</i>	ATCC 27853	5.81	99.99985
27	<i>Salmonella enteritidis</i>	ATCC 13076	6.00	99.9999
28	<i>Salmonella typhimurium</i>	ATCC 13311	5.91	99.99988
29	<i>Serratia marcescens</i>	ATCC 14756	5.88	99.99987
30	<i>Shigella sonnei</i>	ATCC 11060	5.51	99.99969
31	<i>Staphylococcus aureus</i>	ATCC 29213	6.00	99.9999
32	<i>Staphylococcus aureus</i>	ATCC 6538	6.00	99.9999
33	<i>Staphylococcus aureus</i>	CI 99286	6.53	99.99997

SN	Bacteria, Mycobacteria		Log10*	%
26	<i>Staphylococcus aureus</i>	MRSA, ATCC 33592	6.02	99.9999
27	<i>Staphylococcus aureus</i>	MRSA, CI 99161	6.01	99.9999
28	<i>Staphylococcus epidermidis</i>	ATCC 12228	6.00	99.9999
29	<i>Staphylococcus epidermidis</i>	CI 99288	6.08	99.99992
30	<i>Staphylococcus haemolyticus</i>	ATCC 29970	5.63	99.99977
31	<i>Staphylococcus hominis</i>	ATCC 27844	5.64	99.99977
32	<i>Staphylococcus saprophyticus</i>	ATCC 15305	5.66	99.99978
33	<i>Streptococcus pneumoniae</i>	ATCC 6303	6.00	99.9999
34	<i>Streptococcus pneumoniae</i>	PRSP, CI 99192	6.70	99.99998
35	<i>Streptococcus pneumoniae</i>	PRSP, CI 99449	6.70	99.99998
36	<i>Streptococcus pyogenes</i>	ATCC 19615	6.10	99.99992

**Vegetative state, *Log10 (logarithm) stands for a 10-fold or 90% reduction in numbers of recoverable bacteria.

SN	Virucidal activity	Test design	SN	Virucidal activity	Test design
	(99.9% reduction within 15- 30s)		12	Togavirus	PrEN 14476
	Enveloped viruses		13	Pseudorabies virus	PrEN 14476
1	COVID-19 virus (SARS-CoV-2)	PrEN 14476	14	Newcastle disease virus	PrEN 14476
2	SARS coronavirus	PrEN 14476	15	Bovine viral diarrhoea virus	PrEN 14476
3	MERS coronavirus	PrEN 14476	16	Zikavirus	PrEN 14476
4	Ebolavirus	PrEN 14476	17	Herpes simplex virus type 1 MacIntyre (ATCC VR-539)	DVV, PrEN 14476
5	Influenza A virus, type H3N2	PrEN 14476	18	Herpes simplex virus type (ATCC VR-540)	DVV, PrEN 14476
6	Influenza A virus, avian type H3N8	PrEN 14476	19	Human immunodeficiency virus (HTLV-III B)	DVV, PrEN 14476
7	Influenza A virus, human type H1N1,	PrEN 14476	20	Orthopoxvirus (strain Elstree)	DVV
8	Influenza B virus	PrEN 14476			
9	Hepatitis B virus	PrEN 14476			
10	Vacciniavirus	PrEN 14476			
11	Duck hepatitis B virus	PrEN 14476			

SN	Virucidal activity	Test design	SN	Virucidal activity	Test design
	Non-enveloped viruses		4	Papovavirus SV 40 (cultured in CV-1 cells)	DVV
1	Rotavirus (strain Wa, serotype I, subgroup II, MA 104 cells)	DVV	5	Murine norovirus	PrEN 14476
2	Adenovirus type 2 (strain adenoid 6, A-549)	DVV	6	Human enterovirus	PrEN 14476
3	Poliovirus type 1 (strain Mahoney-Pette, AH 1 cells)	DVV	7	Feline calicivirus	PrEN 14476
			8	Rhinovirus	PrEN 14476
			9	Coxsackievirus B5	PrEN 14476

SN	Fungicidal activity (99.9% reduction within 30s)	
	Fungal activity	
1	<i>Candida albicans</i>	PrEN 1275
2	<i>Aspergillus niger</i>	PrEN 1275

CLINICAL EFFICACY STUDIES

Bacteria and fungi			
EN Phase 2 / Step 2	According to EN Phase 2 / Step 2 (Practical tests)	Hygienic Hand Disinfection (EN 1500)	30 sec.
		Surgical Hand Disinfection (EN 12791)	1.5 min.
EN Phase 2 / Step 1	Tested in accordance with EN Phase 2 / Step 1 (suspension tests)	Bactericidal (EN 13727)	15 sec.
		Yeasticidal (EN 13624)	15 sec.
		Fungicidal (EN 13624)	30 sec.
		Tuberculocidal (EN 14348)	30 sec.
		Mycobactericidal (EN 14348)	30 sec.
EN Phase 1	Tested in accordance with EN Phase 1 (basic tests / suspension tests) without organic load; does not define the product's applicability for a certain purpose	Bactericidal (EN 1040)	15 sec.
		Yeasticidal (EN 1275)	15 sec.
		Fungicidal (EN 1275)	30 sec.
VAH	Hygienic hand disinfection - Recommendations for use certified by the Association for Applied Hygiene (VAH). Based on suspension tests and practical testing	Bactericidal / Yeasticidal	30 sec.
		Surgical hand disinfection - Recommendations for use certified by the (VAH). Based on suspension tests and practical testing	Bactericidal / Yeasticidal 1.5 min.
RKI	Approved disinfectant for decontaminations acc. to Art 18 IfSG (RKI) Areas B - Viruses see below	Area A - vegetative bacteria incl. mycobacteria, fungi and fungal spores (use twice in case of Tb)	30 sec.
Viruses			
EN Phase 2 / Step 1 (coronaviruses)**	Active according to EN Phase 2 / Step 1 (suspension tests)	SARS-CoV-2 or COVID-19 virus (EN 14476)	30 sec.
		SARS-CoV (EN 14476)	30 sec.
		MERS-CoV (EN 14476)	30 sec.
EN Phase 2 / Step 1	Active according to EN Phase 2 / Step 1 (suspension tests)	Virucidal (prEN 14476)	30 sec.
		Poliovirus (prEN 14476)	30 sec.
		MNV (prEN 14476)	30 sec.
		Rhinovirus (EN 14476)	30 sec.
EN Phase 2 / Step 1	Active according to EN Phase 2 / Step 1 (suspension tests- following EN)	Rhinovirus (EN 14476)	30 sec.
DVV	Activity against viruses (German Association for the Control of Virus Diseases (DVV))	Virucidal against enveloped viruses (incl. HBV, HIV, HCV)	15 sec.
DVV	Tested for activity against enveloped viruses (following the DVV)	Influenza-A-Virus (avian)	15 sec.
		Influenza-A-Virus (human)	15 sec.
DVV	Tested for activity against the non- enveloped viruses (DVV)	Adenovirus	1 min.
		Polyomavirus	3 min.
DVV	Tested for activity against the non- enveloped viruses (following the DVV)	MNV	15 sec.
		Rotavirus	15 sec.

**Kratzel A, et al. Emerg Infect Dis. 2020;26(7). doi: 10.3201/eid2607.200915.

ASTM Phase 2 / Step 1	Activity testing acc. to the American Standard Test Methods (ASTM)	Coronavirus (human)	15 sec.
		Herpes simplex virus type 1	15 sec.
		Influenza A virus	15 sec.
		RSV	30 sec.
		Poliovirus	15 sec.
		Rotavirus	30 sec.
		Rhinovirus	30 sec.
RKI	Approved disinfectant for decontaminations acc. to Art IfSG (RKI) Area A - bacteria see "bacteria and fungi"	Area B - limited spectrum of virucidal activity	30 sec.

Stability

Stable at normal ambient temperatures

Shipping configurations

- i. 5 litres x 2 per carton
- ii. 500 ml x 20 per carton
- iii. 100 ml x 50 per carton

Shelf Life: 36 Months

Best Before: 12 months after opening container

Fill in



Dispenser



Pump



Spray

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Available

SterloMax E80 5 Litres

Fast acting, Ready-to-use, no water required, for hygiene and surgical hand disinfection, to sanitize hard porous surfaces.



SterloMax E80 500 ml

Fast acting, Ready-to-use, no water required, for hygiene and surgical hand disinfection, to sanitize hard porous surfaces.



Available shortly

SterloMax E80 100 ml

Fast acting, Ready-to-use, no water required, for hygiene and surgical hand disinfection, to sanitize hard porous surfaces.

