Catalogue

SHAPYPRO Proficiency Testing operates schemes in the antiseptic and chemical disinfectant sector. Whatever your quality and testing needs, SHAPYPRO will have the scheme and sample options that will deliver the confidence in your results that you are looking for.

V. 03 - 2025

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1. ABOUT SHAPYPRO

Founded to support excellence. Our proficiency testing programs will help you prove your technical competence, providing you the possibility to fulfil requirements of the most demanding clients, international certification and accreditation bodies, as well as complying with a solid quality management system.

ANNUAL PROGRAMS in order to assess the technical performance of your laboratory analyses in long term. SHAPYPRO offers you an extensive interlaboratory comparation programs.

Additionally, SHAPYPRO is committed to actively listen to all of our clients by offering intercomparison programs adapting to their needs. How can we achieve this? Due to our more than 2000 laboratories network worldwide, we can guarantee the performance of the most specific trials, looking for the most suitable solution for your laboratory.

2. INTRODUCTION

We organise an inter-laboratory comparison of quantitative for biocidal efficacy testing in disinfectant and chemical antiseptic products.

Performed Proficiency Testing Programs	
Method	**ID**
EN 1500	PT-1500-2-0921
EN 1656 & EN 1657	PT-1656-1657-2.1-0222
EN 14476:2013+A:2019	PT-14476-2,1-0822
EN 1499:2013	PT-1499-2,2-0223
EN 1276:2019 & EN 1650:2019	PT-1276-1650-2,1-0523
EN 13727:2012+A2:2015 & EN 13624:2021	PT-13727-13624-2,1-0823
EN 14675	PT-14675-2.1-0624
EN 16777	PT-16777-2.2-0924

Discover our 5-year agenda. With it you will able to evaluate your technical competence with our accredited tests for all the minimum test organisms. Find out more in https://shapypro.com/contact-us/

Future Proficiency Testing Programs Planned	
Method	**Minimum spectrum of test organisms tested**
EN 1276	*Escherichia coli*, *Staphylococcus aureus*, *Enterococcus hirae*, *Pseudomonas aeruginosa*
EN 1650	*Candida albicans*, *Aspergillus brasiliensis*
EN 14476	Poliovirus, Adenovirus, Norovirus, Influenza virus
EN 13727	*Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Escherichia coli* K12, *Enterococcus hirae* or *Enterococcus faecium*
EN 13624	*Candida albicans*, *Aspergillus brasiliensis*
EN 1656	*Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Escherichia coli*, *Enterococcus hirae*
EN 1657	*Candida albicans*, *Aspergillus brasiliensis*
EN 13697	*Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterococcus hirae*, *Aspergillus brasiliensis*, *Candida albicans*
EN 1500	*Escherichia coli* K12
EN 1499	*Escherichia coli* K12
EN 16615	*Staphylococcus aureus*, *Enterococcus hirae*, *Pseudomonas aeruginosa*, *Candida albicans*
EN 14349	*Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Escherichia coli*, *Enterococcus hirae*
EN 12791	*Escherichia coli* K12
EN 14675	Bovine enterovirus (ECBO)
EN 16777	Adenovirus, Murine norovirus
EN 13704	*Bacillus subtilis*, *Clostridium sporogenes*
EN 17126	*Clostridium difficile*, *Bacillus subtilis*, *Bacillus cereus*

Important note: If the assigned value is derived from statistical methods, its reliability is, among other components, directly related to the number of results that have participated in its estimation. Therefore, if less than eight results are used to estimate the assigned value, this is

given for information purpose only. The judgment of veracity must therefore be interpreted with caution considering the low number of results.

3. SHAPYPRO ACCREDITATIONS AND CERTIFICATIONS

SHAPYPRO has been accredited by ENAC (National Accreditation Body) as the world's only provider authorized to perform biocide proficiency testing under the ISO/IEC 17043:2023 standard. This accreditation confirms SHAPYPRO's technical competence and commitment to quality, impartiality, and safety in its evaluations. SHAPYPRO offers participating laboratories the opportunity to demonstrate their technical competence in assessing products such as antiseptics and chemical disinfectants.

At SHAPYPRO we are committed to quality, sustainability, diversity, equality and environmental care. Thus, we are certificated in ISO 9001:2015 and ISO 14001:2015.

You can download our policies, certificates and accreditation scope doing click here.

4. EUROPEAN APPLICATION STANDARDS FOR ANTISEPTICS AND CHEMICAL DISINFECTANTS

European application standards for antiseptics and chemical disinfectants according to EN 14885.

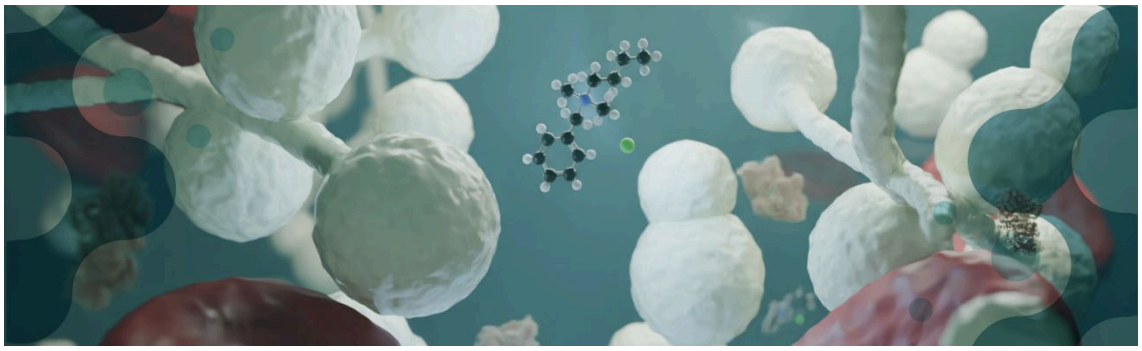
ACTIVITY	PHASE / STEP	APLICATION AREA											
		HYGIENIC HANDRUB	HYGIENIC HANDWASH	SURGICAL HAND DISINFECTION	SURFACE DISINFECTION		MEDICAL	IN FOOD, INDUSTRIAL, DOMESTIC AND INSTITUTIONAL	TEXTILE DISINFECTION	VETERINARY	BASIC	AQUEOUS SYSTEMS	AIR DISINFECTION
					Mechanical action								
					Without	With							
BACTERICIDE	1,0										EN 1040		EN 17272
	2,1	EN 13727			EN 13727		EN 13727	EN 1276		EN 1656			
	2,2	EN 1500	EN 1499	EN 12791	EN 13697 EN 14349 EN 16437 EN 17387	EN 16615	EN 14561 EN 16615 EN 17387	EN 13697	EN 16616	EN 14349 EN 16437			
YEASTICIDAL	1,0										EN 1275		EN 17272
	2,1	EN 13624			EN 13624		EN 13624	EN 1650		EN 1657			
	2,2				EN 13697 EN 16438 EN 17387	EN 16615	EN 14562 EN 16615 EN 17387	EN 13697	EN 16616	EN 16438			
FUNGICIDE	1,0										EN 1275		EN 17272
	2,1				EN 13624		EN 13624	EN 1650		EN 1657			
	2,2				EN 13697 EN 17387		EN 14562 EN 17387	EN 13697	EN 16616	EN 16438			
TUBERCULICIDE / MYCOBACTERICIDE	2,1						EN 14348	EN 14348		EN 14204			EN 17272
	2,2						EN 14563		EN 16616				
VIRICIDE	2,1	EN 14476	EN 14476		EN 14476		EN 14476	EN 13610	EN 14476	EN 14675			EN 17272
	2,2	EN 16777 EN 17430	EN 16777		EN 16777 EN 17122		EN 16777 EN 17111	EN 16777	EN 16777	EN 17122			
LEGIONELLA	2,1											EN 13623	
ESPORICIDE	1,1										EN 14347		EN 17272
	2,1						EN 17126	EN 13704					

5. CHEMICAL DISINFECTANTS AND ANTISEPTICS PROTOCOL PHASE 1.

Phase 1 tests assess the basic antimicrobial activity of chemical disinfectants and antiseptics. They determine whether a product has sufficient bactericidal, fungicidal, or sporicidal activity before advancing to more specific testing phases.

Created in 2021 1 mandatory organism per year Schedule between 8-10 weeks Samples are shipped via express by SHAPYPRO	Analysis according to: ✓ EN 1040 Quantitative suspension test for the evaluation of basic bactericidal activity of chemical disinfectants and antiseptics - Test method and requirements (phase 1) ✓ EN 1275 Quantitative suspension test for the evaluation of basic fungicidal or basic yeasticidal activity of chemical disinfectants and antiseptics - Test method and requirements (phase 1) **Phase 1 Step 1** ✓ EN 14347 Basic sporicidal activity - Test method and requirements (phase 1, step 1)

6. CHEMICAL DISINFECTANTS AND ANTISEPTICS PROTOCOL PHASE 2 STEP 1



Created in 2021
1 mandatory organism per year
Schedule between 8-10 weeks
Samples are shipped via express by SHAPYPRO

Phase 2 Step 1 examines disinfectants' **efficacy against bacteria, fungi, mycobacteria, viruses, Legionella, and spores** under controlled laboratory conditions. These tests ensure that products meet essential safety and regulatory requirements before application in real-world settings.

Analysis according to:

Bactericidal

- ✓ EN 13727 Quantitative suspension test for the evaluation of bactericidal activity in the medical area - Test method and requirements (phase 2, step 1)
- ✓ EN 1276 Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)
- ✓ EN 1656 Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

Fungicidal and yesticidal

- ✓ EN 13624 Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area - Test method and requirements (phase 2, step 1)
- ✓ EN 1650 Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1)
- ✓ EN 1657 Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

Mycobactericidal

- ✓ EN 14348 Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants in the medical area including instrument disinfectants - Test methods and requirements (phase 2, step 1)
- ✓ EN 14204 Quantitative suspension test for the evaluation of mycobactericidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (phase 2, step 1)

Virucidal

- ✓ EN 14476 Quantitative suspension test for the evaluation of virucidal activity in the medical area - Test method and requirements (Phase 2/Step 1)
- ✓ EN 13610 Quantitative suspension test for the evaluation of virucidal activity against bacteriophages of chemical disinfectants used in food and industrial areas - Test method and requirements (phase 2, step 1)
- ✓ EN 14675 Quantitative suspension test for the evaluation of virucidal activity of chemical disinfectants and antiseptics used in the veterinary area - Test method and requirements (Phase 2, step 1)

Legionella

- ✓ EN 13623 Quantitative suspension test for the evaluation of bactericidal activity against *Legionella* of chemical disinfectants for aqueous systems - Test method and requirements (phase 2, step 1)

Sporicidal

- ✓ EN 17126 Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants in the medical area - Test method and requirements (phase 2, step 1)
- ✓ EN 13704 Quantitative suspension Reference soft soap test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas - Test method and requirements (phase 2, step 1).

6.1. Cycle rounds. Test method and requirements phase 2, step 1

With our proficiency testing programs accredited laboratories could tested their technical competence in all mandatory's organisms per standard in 5 years round.

Test your technical capability over a 5-year period with the mandatory organisms in the standards for Chemical Disinfectants and Antiseptics–Phase 2 Step 1.						
Area	**Standard**	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**
Medical	**EN 13727**					
	EN 14348					
	EN 13624					
	EN 14476					
	EN 17126					
Veterinary	**EN 1656**					
	EN 14204					
	EN 1657					
	EN 14675					
Food, Industrial, Domestic, and Institutional	**EN 1276**					
	EN 13704					
	EN 13610					
	EN 1650					
Aquous systems	**EN 13623**					

bacteria
mycobacteria
espore
yeast
mold
virus
Legionella

7. CHEMICAL DISINFECTANTS AND ANTISEPTICS PROTOCOL PHASE 2 STEP 2

This step evaluates disinfectants **under practical conditions**, simulating real-world applications in hand hygiene, surface disinfection, instrument sterilization, textile treatment, and air disinfection.

7.1. Chemical Disinfectants and Antiseptics hand sanitizers

Created in 2021	Analysis according to: ✓ EN 1500 Hygienic handrub - Test method and requirements (phase 2/step 2) ✓ EN 1499 Hygienic handwash - Test method and requirements (phase 2/step 2) ✓ EN 12791 Surgical hand disinfection - Test method and requirements (phase 2, step 2)
1 round annually	
Schedule between 8-10 weeks	
Samples are shipped via express by SHAPYPRO	
Reference soft soap	

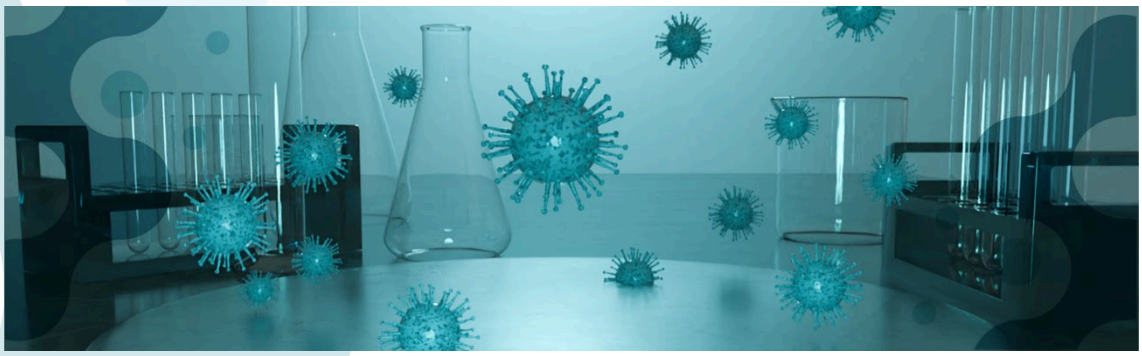
Hand sanitizers play a crucial role in infection control and public health. This section includes tests for hygienic handrubs and handwashes, ensuring compliance with European standards for effective hand disinfection.

Diluted soft soap

SHAPYPRO manufactures soft soap diluted used in the standards EN 1499:2013 Hygienic handwash "Test method and requirements (phase 2/stage 2)" and EN 1500:2013 Hygienic handrub "Test method and requirements (phase 2/stage 2)" for the preparation of the volunteer's hands, thanks to our partner Piel Segura with more than 20 years in the soap manufacturing sector. As well as the one used for the procedure for Hygienic handwash reference (RP) for the EN 1499 standard.

https://shapypro.com/diluted-soft-soap/

7.2. Chemical Disinfectants and Antiseptics Surface disinfectants



Created in 2021 **1 mandatory organism per year** Schedule between 8-10 weeks	Analysis according to: ✓ EN 13697 Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic, and institutional areas - Test method and requirements without mechanical action (phase 2, step 2) ✓ EN 16615 Quantitative test method for the evaluation of bactericidal and yeasticidal activity on non-porous surfaces with mechanical action employing wipes in the medical area (4- field test) - Test method and requirements (phase 2, step 2) ✓ EN 14349 Quantitative surface test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in the veterinary area on non-porous surfaces without mechanical action - Test method and requirements (phase 2, step 2) ✓ EN 16437 Quantitative surface test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in veterinary area on porous surfaces without mechanical action - Test method and requirements (phase 2, step 2) ✓ EN 16438 Quantitative surface test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in the veterinary area on non-porous surfaces without mechanical action - Test method and requirements (phase 2, step 2) ✓ EN 16777 Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area - Test method and requirements (phase 2/step 2)
Samples are shipped via express by SHAPYPRO	

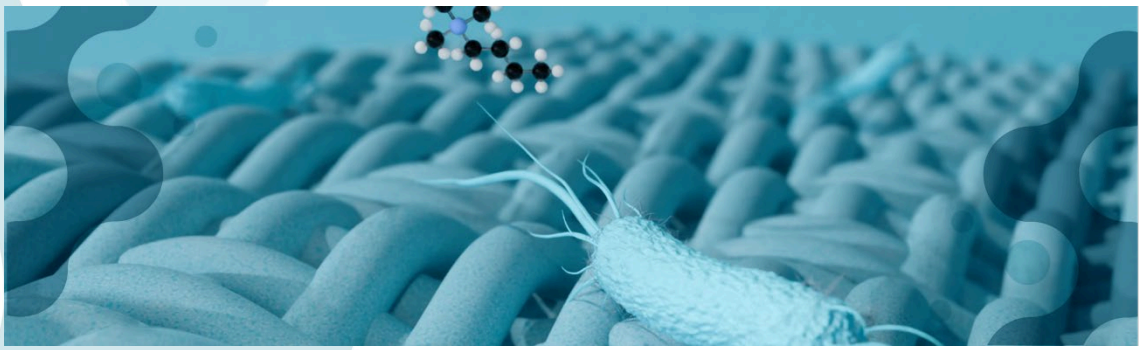
Surface disinfectants are essential for controlling microbial contamination in medical, industrial, and public environments. These tests assess bactericidal, fungicidal, and virucidal activity on non-porous and porous surfaces, with or without mechanical action.

7.3. Chemical Disinfectants and Antiseptics for instruments

Created in 2021	Analysis according to: ✓ EN 14561 Quantitative carrier test for the evaluation of bactericidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2) ✓ EN 14562 Quantitative carrier test for the evaluation of fungicidal or yeasticidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2) ✓ EN 14563 Quantitative carrier test for the evaluation of mycobactericidal or tuberculocidal activity of chemical disinfectants used for instruments in the medical area - Test method and requirements (phase 2, step 2) ✓ EN 17111 Quantitative carrier test for the evaluation of virucidal activity for instruments used in the medical area - Test method and requirements (phase 2, step 2)
1 mandatory organism per year	
Schedule between 8-10 weeks	
Samples are shipped via express by SHAPYPRO	

Instrument disinfection is critical in medical and laboratory environments. These tests evaluate bactericidal, fungicidal, mycobactericidal, and virucidal activity on instruments used in healthcare settings.

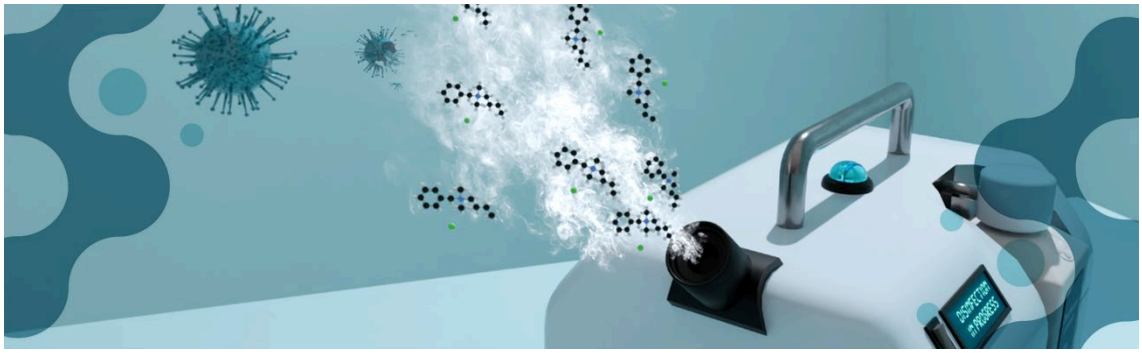
7.4. Chemical Disinfectants and Antiseptics of textile products



Created in 2021 **1 mandatory organism per year** Schedule between 8-10 weeks Samples are shipped via express by SHAPYPRO	Analysis according to ✓ EN 16616 Chemical-thermal textile disinfection - Test method and requirements (phase 2, step 2)

Textile disinfection is essential in healthcare and industrial applications to prevent microbial contamination. This section evaluates chemical-thermal disinfection methods to ensure textiles meet the necessary antimicrobial standards.

7.5. Chemical Disinfectants and Antiseptics of air disinfection



Created in 2021 **1 or 2 mandatory organism per year** Schedule between 8-10 weeks Samples are shipped via express by SHAPYPRO	Analysis according to ✓ EN 17272 Chemical disinfectants and antiseptics – Methods of airborne room disinfection by automated process – Determination of bactericidal, mycobactericidal, sporicidal, fungicidal, yeasticidal, virucidal and phagocidal activities

Airborne pathogens pose significant risks in hospitals, laboratories, and enclosed spaces. This section covers proficiency tests for air disinfection systems, ensuring their effectiveness in reducing microbial contamination in the environment.

7.6. Cycle rounds. Test method and requirements phase 2, step 1

With our proficiency testing programs, accredited laboratories could tested their technical competence in all mandatory's organisms per standard in 5 years round.

Test your technical capability over a 5-year period with the mandatory organisms in the standards for Chemical Disinfectants and Antiseptics–Phase 2 Step 2.

Area	Standard	Year 1	Year 2	Year 3	Year 4	Year 5
Hand sanitizers	EN 1500					
	EN 1499					
	EN 12791					
Surface disinfectants	EN 13697					
	EN 16615					
	EN 14349					
	EN 16437					
	EN 16438					
	EN 16777					
Instrumets	EN 14561					
	EN 14562					
	EN 14563					
	EN 17111					
Textile products	EN 16616					
Air disinfection	EN 17272					

bacteria
mycobacteria
espore
yeast
mold
virus