

Technical Data Sheet ADASPOR PLUS[®]CONCENTRATE MEDICAL DEVICE class IIb CODE CODE ISA/CE/43

Current 1 Rev. 1 Valid from: 01.06.2015

P. 1/7

1. Device Name

ADASPOR PLUS CONCENTRATE®

2. Qualitative and quantitative composition		
Activated solution (A+B)		
- ISAZONE [®] (C ₂₀ H ₂₀ ON ₂)	g	0.010
- Peracetic acid	g	0.180
- Co-formulants (stabilizers, buffers, anticorrosive) and purified water q.s. to	ml 1	100.000

3. Product presentation

Description of activated solution (A+B): concentrated, fast-acting, tuberculocidal, sporicidal, bactericidal, virucidal, fungicidal chemical cold sterilization solution compliant with Standard UNI EN ISO 14937:2009 for endoscopes and medical devices (instruments, catheters and probes, equipment for anaesthesia, inhalation therapy, haemodialysis, endoscopy, urology, dentistry, etc.). Can be used for manual and automatic cleaning of medical devices and equipment according to the manufacturer's instructions.

Packaging: 2 bottles (Sol. A: 45 ml and Sol B: 205 ml) in a box. 2 bottles (Sol. A: 180 ml and Sol B: 820 ml) in a box.

4. Activity and microbiological properties, according to UNI EN ISO 14885:2006: "Application of European standards for chemical disinfectants and antiseptics

4.1 Sterilizing Activity according to UNI EN ISO14937:2009 par 5.3.1 and in compliance with UNI EN ISO 111381:2006		
Method used	UNI EN ISO14937:2009 par 5.3.1 and UNI EN ISO 11138-1:2006	
Strains used	Bacillus subtilis ATCC 6633 Bacillus atropheus ATCC 9372 Bacillus cereus ATCC 12826 Clostridium sporogenes ATCC 19404 Geobacillus stearothermophylus ATCC 7953 Mycobacterium terrae ATCC 15755 Candida albicans ATCC 10231 Aspergillus niger ATCC16404 Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538P Virus lipidici e non lipidici Picornavirus (Coxasackie B3) Adenovirus Type 4	
Result	sterilization time: 10' – CFU growth = 0	





Technical Data Sheet ADASPOR PLUS®CONCENTRATE MEDICAL DEVICE class IIb CODE CODE ISA/CE/43

Current 1 Rev. 1 Valid from: 01.06.2015

P. 2/7

4.2 Activity and microbiological properties, according to UNI EN ISO 14885:2006: "Application of European standards for chemical disinfectants and antiseptics"

4.2.1 Sporicidal Activity according to UNI EN ISO 14885:2006			
Method used	EN 14347 - Basic sporicidal activity test		
	$(CBI = 10^8 - 10^9 \qquad R \ge 4 \log)$		
Strains used	Bacillus subtilis ATCC 6633		
	Bacillus cereus ATCC 12826		
Result	contact time: 10' – CFU growth = 0		
	contact time: $5' - R \ge 4 \log$		
Method used	EN 13704 - Sporicidal activity test		
	(CBI = 10^6 R \ge 3 log, in clean condition)		
Strains used	Bacillus subtilis ATCC 6633		
	Bacillus cereus ATCC 12826		
	Clostridium sporogenes ATCC 19404		
Result	contact time: 10 ' – CFU growth = 0, in clean condition		
	contact time: $5' - R \ge 3 \log$, in clean condition		

4.2.2 Mycobactericidal Activity according to UNI EN ISO 14885:2006			
Method used	EN 1040 mod - Basic mycobactericidal activity test		
	$(CBI = 10^8 \qquad R \ge 5 \log)$		
Strains used	Mycobacterium terrae ATCC 15755		
	Mycobacterium avium ATCC 15769		
	Mycobacterium smegmatis CIP 7326		
Result	contact time: 10' – CFU growth = 0		
	contact time: $5' - R \ge 5 \log q$		
Method used	EN 14348 - Mycobactericidal activity test in medical field		
	(CBI = 10^8 R \ge 4 log, in clean and dirty condition)		
Strains used	Mycobacterium terrae ATCC 15755		
Struins used	Mycobacterium avium ATCC 15769		
	Mycobacterium smegmatis CIP 7326		
Result	contact time: 10 ' – CFU growth = 0, in clean and dirty condition		
	contact time: $5' - R \ge 4 \log$, in clean and dirty condition		
Method used	EN 14563 - Mycobactericidal activity test on carrier in medical field		
	(CBI = 10^9 R \ge 4 log, in clean and dirty condition)		
Strains used	Mycobacterium smegmatis CIP 7326		
	Mycobacterium terrae ATCC 15755		
	Mycobacterium avium ATCC 15769		
Result	contact time: 10 ' - CFU growth = 0, in clean and dirty condition		
	contact time: $5' - R \ge 4 \log$, in clean and dirty condition		

4.2.3 Virucidal Activity according to UNI EN ISO 14885:2006			
Method used	EN 14476 - Virucidal activity test (CMI = $10^8 \div 10^9$, in clean and dirty condition)		
Strains used	Murine norovirus (MNV) strain S99		



Technical Data Sheet ADASPOR PLUS®CONCENTRATE MEDICAL DEVICE class IIb CODE CODE ISA/CE/43

Current 1 Rev. 1 Valid from: 01.06.2015

P. 3/7

Result	contact time: 10' – growth inhibition, in clean and dirty condition contact time: 5' – growth inhibition, in clean and dirty condition	
Method used	EN 14476 - Virucidal activity test (CMI = 10 ⁸ ÷ 10 ⁹)	
Strains used	Picornavirus (Coxasackie B3) Adenovirus Type 4	
Result	contact time: 10' – inhibits growth. contact time: 5'- – inhibits growth	

4.2.4 Fungicidal Activity according to UNI EN ISO 14885:2006			
Method used	EN 1275 - Basic fungicidal activity test		
	$(CMI = 10^7 \text{ ufc/ml} \ \mathbb{R} \ge 4 \log)$		
strains used	Candida albicans ATCC 10231		
	Aspergillus niger ATCC 16404		
Result	Contact time: 10' – growth: CFU =0		
	Contact time: $5' - R \ge 4 \log$		
Method used	EN 1650 - Quantitative suspension test for the evaluation of fungicidal activity in the		
	presence of interfering substances		
	(CMI = 10^7 ufc/ml R \ge 4 log, in clean and dirty condition)		
strains used	Candida albicans ATCC 10231		
	Aspergillus niger ATCC 16404		
Result	Contact time: 10' – growth: UFC =0, in clean and dirty condition		
	Contact time: 5' – R≥ 4 log, in clean and dirty condition		
Method used	EN 13624 - Quantitative suspension test in medical field		
	(CMI = 10^7 ufc/ml - R \ge 4 log, in clean and dirty condition)		
strains used	Candida albicans ATCC 10231		
	Aspergillus niger ATCC 16404		
Result	Contact time: 10' – growth: UFC =0, in clean and dirty condition		
	Contact time: $5' - R \ge 4 \log$, in clean and dirty condition		
Method used	EN 14562: Quantitative test on carrier in medical field		
	(CMI = 10^7 ufc/ml R \ge 4 log, in clean and dirty condition)		
strains used	Candida albicans ATCC 10231		
	Aspergillus niger ATCC 16404		
Result	Contact time: 10' – growth: UFC =0, in clean and dirty condition		
	Contact time: 5' – $R \ge 4 \log$, in clean and dirty condition		

4.2.5 Bactericidal Activity according to UNI EN ISO 14885:2006			
Method used	EN 1040 - Basic bactericidal activity test (CBI = 10^8 R \ge 5 log)		
Strains used	Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538P		
Result	contact time: 10° – CFU growth = 0 contact time: 5° – R \ge 5 log		
Method used	EN 1276 - Bactericidal activity test in the presence of interfering substance (CBI = 10^8 R \ge 5 log, in clean and dirty condition)		



Current 1 Rev. 1 Valid from: 01.06.2015

P. 4/7

Strains used	Pseudomonas aeruginosa ATCC 15442 Stanbulococcus aureus ATCC 6538P		
	Escherichia coli ATCC 10536 Enterococcus hirae ATCC 10541		
Result	contact time: $10' - CFU$ growth = 0, in clean and dirty condition contact time: $5' - R \ge 5 \log$, in clean and dirty condition		
Method used	EN 13727 - Bactericidal activity test in medical field (CBI = 10^8 R \geq 5 log, in clean and dirty condition)		
Strains used	Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538P Enterococcus hirae ATCC 10541		
Result	contact time: $10' - CFU$ growth = 0, in clean and dirty condition contact time: $5' - R \ge 5 \log_2$, in clean and dirty condition		
Method used	EN 14561 - Bactericidal activity test on carrier in medical field (CBI = 10^8 R \ge 5 log, in clean and dirty condition)		
Strains used	Pseudomonas aeruginosa ATCC 15442 Staphylococcus aureus ATCC 6538P Enterococcus hirae ATCC 10541		
Result	contact time: 10' – CFU growth = 0, in clean and dirty condition contact time: 5' -R ≥ 5 log, in clean and dirty condition		

4.2.6 Bactericidal and Fungicidal Activity according to UNI EN ISO 14885:2006				
Method used	UNI EN 13697 - Quantitative test on non-porous surfaces			
	(CBI = 10^8 ufc/ml R $\ge 4 \log$ - CMI = 10^7 ufc/ml R $\ge 3 \log$, in clean and dirty condition)			
Strains used	Pseudomonas aeruginosa ATCC 15442			
	Staphylococcus aureus ATCC 6538P			
	Escherichia coli ATCC 10536			
	Enterococcus hirae ATCC 10541			
	Candida albicans ATCC 10231			
	Aspergillus niger ATCC 16404			
Result	Contact time: 10 minutes - growth: UFC =0, in clean and dirty condition			
	Contact time: 5' - $R \ge 4 \log$ for bacteria and $R \ge 3 \log$ for fungi, in clean and dirty			
	condition			

MRC evaluation for microbicidal activity (sporicide)				
Method used	AFNOR NF-T-72-231 and EN 13704			
	$(CBI = 10^{8}/10^{7} \text{ ufc/ml } R \ge 3 \log/R \ge 5 \log)$			
strains used	Bacillus subtilis. ATCC 6633			
Result	Contact time: 10' - reduction > 5 log MCR = 0.05%			
LEGEND:	CBI/CMI = Initial bacterial load/initial microbial load			
	R	= expected reduction of bacterial/microbial load		
	CFU	= colony-forming units		

5. Directions for use

Via Laurentina 169 00071 POMEZIA (RM)

Activity: Sterilization: 10 minutes at room temperature [EP(25±5°C)] High level sporicidal and disinfecting action: 5 minutes at room temperature [EP(25±5°C)]

Stability after activation/dilution: within 12 days in covered trays. The number of cycles and the stability after activition/dilution varies depending on the model of sterilization-disinfection machine, the type of endoscope reprocessor, on the mandatory and correct



Chemico-Pharmaceutical Industries Via Laurentina 169 00071 POMEZIA (RM)

Current 1 Rev. 1 Valid from: 01.06.2015 P. 5/7

compliance with cleaning procedures and cleaning required by guidelines and **MRC** (Minimum Recommended Concentration). The "ADASPOR PLUS" test strips can confirm that the product is always above the **MRC** of 0.05% peracetic acid solution.

Instructions and directions for use: use diluted 1:5 in water. Do not use saline solution to dilute it.

Pack of 250 ml: pour 1 litre of water in a bowl and add the solution of the two containers (solution A and solution B) or in the container of the cleaning-disinfection machine and/or automated disinfection cleaning machine according to manufacturer's instructions.

Pack of 1000 ml: pour 4 litres of water in a bowl and add the solution of the two containers (solution A and solution B) or in the container of the automated sterilization-disinfection machine according to manufacturer's instructions.

for manual disinfection: immerse the medical devices in the activated solution, after having washed and dried them, making sure it penetrates all their cavities. Remove the disinfected devices from the tray through an aseptic procedure and rinse them with sterile water.

For use in automated sterilization and disinfection machines and ultrasonic endoscope reprocessors: fill the containers with the required amount of activated ADASPOR PLUS CONCENTRATED solution following the instructions of the manufacturers. Set the automated sterilization disinfection machine entering the appropriate contact time. The treatment plan also includes the rinsing phase.

Compatibility: the activated solution is compatible with the materials of the medical devices, especially endoscopes and automated sterilization-disinfection equipment. Data is filed with the manufacturer.

6. I oxicological information	6.	Toxicological	Information	
--------------------------------------	----	---------------	-------------	--

Solution A

DL ₅₀ oral rat	1540 mg/kg
DL ₅₀ skin rat	1410 mg/kg
Inhalation (CL ₅₀)	450 mg/m^3

Solution B

The composition does not justify any precautions beyond normal ones: do not ingest and avoid prolonged direct contact. ISAZONE, the component of the solution is part of a group of substances used in pharmacology given by oral path in average doses of 100 mg, 1 or 2 times a day. For these substances no toxicity value has been detected in case of contact with the skin.

Solution A + B

The acute toxicity of ADASPOR PLUS CONCENTRATE (activated solution) has been investigated on rats repeatedly administered doses of 2000 mg/kg on the skin.

No cases of mortality or clinical signs were observed due to the treatment.

These results suggest that ADASPOR PLUS CONCENTRATED has no toxic effects when administered transdermally to rats within 24 hours at doses of 2000 mg/kg. The absence of mortality indicates that its LD50 is much greater than the dose of 2000 mg/kg. The latter is considered the NOEL (NO OBSERVED EFFECT LEVEL) level for single oral doses.

NOEL (No Observed Effect Level)

2000 mg/kg

CANTEL MEDICAL CANTEL MEDICAL (ITALY) S.r.I. Chemico-Pharmaceutical Industries Via Laurentina 169 00071 POMEZIA (PM)	Te ADA	chr SPOF MEI cod	NICAL DATA S R PLUS [®] CONCEN DICAL DEVICE class I E CODE ISA/CE/4	Sheet NTRATE ^{Ib} 43
00071 POMEZIA (RM)	Current 1	Rev. 1	Valid from: 01.06.2015	P. 6/7

For use in hospitals, and medical and dental practice. Solution A should be handled by qualified staff in compliance with effective safety regulations. Solution A and Solution B cannot be used separately.

Solution A (peracetic acid 5 %)	
Warning: Danger	
Symbols:	
(H) Hazard statements:	(H242): Heating may cause a fire.
	(H290): Can be corrosive to metals.
	(H302): Harmful if swallowed.
	(H314): Causes severe skin burns and eye damage.
	(H335): May cause respiratory irritation
	(H412): Harmful to aquatic organisms with long-term effects.
(P) Precautionary statements	(P210): Keep away from heat sources, hot surfaces, sparks, open flames or other ignition
	sources. Do not smoke.
	(P234): Keep only in original container.
	(P260): Do not breathe vapours.
	(P280): Wear protective gloves/protective clothing/eye protection/face protection (faceshield with balmet or faceshield with page los)
	(D202 D261 D252), IN CASE OF CONTACT WITH THE SKIN (or with bair), take off
	immediately all contaminated clothing. Rinse skin with water/shower
	(P305+P351+P338): IF IN FYFS: rinse continuously with water for several minutes. Remove
	contact lenses if present and easy to do Continue rinsing
	(P310): Immediately contact a POISON CENTRE
	(P410+P403) Protect from sunlight Store in a well-ventilated place
Contains:	Peracetic Acid
Containst	Hydrogen neroxide
Solution B (Isazone-Co-	Safety data sheet available on request for professional users.
Formulants)	
Symbols:	1
(II) Herend statements:	
(n) nazaro statements:	1

(P) Precautionary statements /

Keep out of reach of children. Keep in a dry place at room temperature, away from heat sources. The expiry date refers to the intact and properly stored product. Do not use after expiration date. Do not release the container to the environment after use (shown on the label with the symbol).

The product has no contraindications at the recommended dilution.

The activated and diluted product does not require additional specific safety measures for people or the environment. After use, the solutions must be disposed of in compliance with the regulations in force.



Technical Data Sheet ADASPOR PLUS®CONCENTRATE MEDICAL DEVICE class IIb CODE CODE ISA/CE/43

Current 1 Rev. 1 Valid from: 01.06.2015

P. 7/7

8. Physical and chemical properties

ADASPOR PLUS CONCENTRATE® upon use	SOLUTION A+B
aspect	clear liquid
colour	colorless and/or slightly yellowish
specific weight	1.0 ± 0.2
pH	6.0 ± 1.0
peracetic acid	0.180
Isazone®	0.010%
acceptable microbiological levels	$\leq 10 \text{ cfu/ml}$

The above data refers to the solutions after activation/dilution.

9. Quality checks

The company operates under a fully certified quality system UNI EN ISO 9001 - UNI CEI EN 13485. Manufacturing and control processes are also compliant with the same standards (GMP-Good Manufacturing Practices) required for the manufacture of drugs.

10. Shelf-life

16 months for the product properly stored in original packaging.

12 days for the activated and diluted solutions.

11. Storage conditions

Keep in a dry place at room temperature, away from heat sources.

12. Type and capacity of containers

250 ml and 1000 ml PE bottles closed with ring-nut caps.

13. Name and address of the holder of the certification

CANTEL MEDICAL (ITALY) S.r.l.

Via Laurentina, n. 169 Pomezia (Roma) Ph. +39.06/9145399 Independent production laboratory

14. Compilation date:

Curre	Rev.	Date	REASON OF REVISIONS	REVISION OF PAGES
nt				
1	0	03.04.2011	First edition	
	1	01.06.2015	Microbiological data implementation for sporicidal (EN 14347) and virucidal (MNV) activity, change of company's name/logo, adaptation to EC Regulation CLP	Integral

THIS DOCUMENT MAY UNDERGO REVISIONS FOR IMPROVEMENTS, REGULATORY AND LEGISLATIVE MODIFICATION OR OTHER. IT IS SUGGESTED TO PERIODICALLY CONTACT CANTEL MEDICAL (ITALY) S.r..l. TO CHECK THE CURRENT STATUS OF THE SAME OR VISIT THE WEBSITE: www.cantelmedical.it