



Hospital Disinfectants





Nowadays, the use of new-generation disinfectants with rapid efficacy and a broad spectrum of activity holds particular importance in medical centers, hospitals, pharmaceutical industries, and the food and cosmetic-hygienic sectors. Proper disinfection of hands, equipment, and surfaces is crucial to prevent the spread of microbial contamination among personnel, as well as to avoid economic losses resulting from product contamination.

The use of disinfectants with specialized formulations—which is among the key recommendations of the World Health Organization (WHO)—not only helps reduce the risk of community-wide outbreaks and hospital-acquired infections, but also prevents microbial contamination in industrial and production settings. Overall, such specialized products offer superior economic and environmental advantages, as well as higher efficacy, compared to general-purpose disinfectant solutions.

The Bayerpol Fanavar Pharmaceutical Group (a knowledge-based enterprise), based in Pardis Technology Park, leverages the latest global technological advancements under the supervision of experienced specialists and utilizing formulations from reputable European companies to manufacture several lines of specialized disinfectant products under the brand name Micropak, as detailed below. These products possess validation capability across various sectors and production lines, and are designed to meet all general and specialized requirements of diverse users in public, healthcare, and industrial production settings, as outlined below.



Hospital Disinfectants

- **Dermapak:** Includes various hand and skin disinfectants for general, daily, and specialized use by healthcare personnel; surgical hand scrub (hand rub); potent, fast-acting disinfectants for high-risk contamination scenarios; as well as disinfectant gels enriched with emollients and vitamins.
- **Surfopak:** Comprises specialized disinfectants for hospital, industrial, and general-purpose surfaces, including fast-acting alcohol-based and alcohol-free formulations; high-level and enzymatic disinfectants; dedicated products for pharmaceutical cleanrooms and hospital isolation rooms requiring no rinsing; as well as disinfectants specially designed for outdoor environments with high contamination risk.
- **Insopak:** Encompasses specialized disinfectants for surgical and hospital instruments and equipment, including fast-acting alcohol-based and alcohol-free formulations; disinfectants specifically designed for ultrasonic baths; instrument disinfectants for moderate- and high-level contamination risk and specialized disinfectants for endoscopy devices.
- **Dentapak:** Features specialized disinfectants for dental centers, including fast-acting alcohol-based and alcohol-free formulations dedicated to dental instruments and equipment; products for use in ultrasonic baths; specialized disinfectants for dental suction units; and dedicated disinfectants for dental impression materials and devices.

Micropak

Dermapak

Hand & Skin Sanitizer



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Dermapak

Hand & Skin Sanitizer



Dermapak Hand & Skin Sanitizer	Ref. Code
Dermapak-C for Common Use-Instant Effect	501100
Dermapak-S for Surgical Use	501110
Dermapak-H for Hospital Use	501104
Dermapak-Ultra for Hospital Use - Strong Effect-High Stability	501112
Dermapak-Gel for Common Use-Instant Effect	501116
Dermapak-Gel+Vit for Common Use-Contains Vitamin	501120

Dermapak-C

(Common Use)



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Fast-acting hand and skin antiseptic solution
- Based on 70% Ethanol
- Suitable for general daily use
- Ready-to-use – no rinsing required
- Contains skin conditioning agents
- Pleasant fragrance during use



► Application

Dermapak C is a hand and skin disinfectant solution based on 70% ethanol, provided as a ready-to-use solution that requires no rinsing. Its formulation with skin-conditioning agents not only ensures effective antimicrobial action, but also prevents dryness and irritation, making it ideal for frequent use in public, office, and home environments.

With its easy application and soft feel after use, this product is a reliable and economical choice for daily protection against infectious agents.

▶ Mechanism of Action

Ethanol is a fast-acting alcohol that effectively inactivates bacteria, fungi, and enveloped viruses by denaturing proteins and disrupting cell membranes. Its rapid evaporation ensures quick antimicrobial action on skin and surfaces. When combined with moisturizing agents, ethanol-based formulations help maintain skin hydration and barrier integrity, preventing dryness and irritation while providing reliable, broad-spectrum disinfection suitable for healthcare and everyday use.



Direction for Use

If visible dirt is present, wash hands with soap and water first. Apply a sufficient amount of Dermapak C to your hands and rub thoroughly for 30 seconds, ensuring complete coverage. Once dry, your hands are fully disinfected with no need for rinsing.

Product Properties

Form	Liquid
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
Skin Conditionig Agents
Fragrance

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5011005000
10 Gallons	1 L	5011001000
20 Spray	750 ml	501100750
15 Bottle	500 ml	501100500
60 Spray	100 ml	501100100

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):

- Candida albicans / ATCC 10231

According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran

Dermapak-S



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Specialized surgical hand rub
- Based on 70% Ethanol, n-propanol, and chlorhexidine digluconate
- Suitable for surgical staff and operating room personnel
- Ready-to-use – no rinsing required
- Contains skin-conditioning agents
- Pleasant fragrance during use



► Application

Dermapak S is a specialized surgical hand rub formulated with 70% ethanol, n-propanol, and chlorhexidine digluconate to provide rapid, broad-spectrum, and durable antimicrobial activity.

This alcohol-based formulation, with scientifically proven efficacy, eliminates resistant microorganisms in a short contact time while the conditioning agents protect the skin from dryness and irritation during repeated use.

Its fast-drying, no-rinse formula and compliance with surgical hygiene standards make it a reliable choice for surgeons and operating room staff.

▶ Mechanism of Action

This hand sanitizer combines Ethanol, n-Propanol, and Chlorhexidine to deliver rapid and sustained antimicrobial protection. Ethanol and n-Propanol, as fast-acting alcohols, denature proteins and disrupt microbial membranes, inactivating bacteria, fungi, and enveloped viruses within seconds. Chlorhexidine, a cationic antiseptic, binds to microbial surfaces and provides a persistent residual effect, prolonging protection after application. Together, they ensure immediate kill, broad-spectrum efficacy, and long-lasting defense, while moisturizing agents in the formulation help maintain skin hydration and comfort.



Direction for Use

Wash and dry hands thoroughly with soap and water. Apply an adequate amount of Dermapak S and rub for 1–1.5 minutes, ensuring coverage between fingers and under nails. After drying, your hands are fully disinfected with no rinsing required.

Product Properties

Form	Liquid
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
n-propanol
Chlorhexidine Digluconate
Skin Conditionig Agents
Fragrance

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5011085000
10 Gallons	1L	5011081000
20 Spray	750 ml	501108750
15 Bottle	500 ml	501108500

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

Dermapak-H

(for Hospital Use)

▶ Key Benefits

- High-persistence hand antiseptic solution
- Based on 70% Ethanol and Chlorhexidine
- Suitable for use in hospitals and healthcare centers
- Ready-to-use – no rinsing required
- Contains skin-conditioning agents
- Pleasant fragrance during use



▶ Application

Dermapak H is a powerful hand and skin antiseptic solution formulated with 70% ethanol and chlorhexidine. It is ready-to-use, requiring no rinsing, and can be applied directly or as a spray.

The skin-conditioning formulation not only protects against dryness and irritation, but also ensures high, durable antimicrobial activity. Dermapack H is recommended for direct hand antiseptis in hospitals, healthcare facilities, isolation rooms, kitchens, clinics, and laboratories where the presence of resistant

▶ Mechanism of Action

The combination of Ethanol and Chlorhexidine delivers rapid and long-lasting antimicrobial protection. Ethanol acts quickly by denaturing proteins and disrupting microbial membranes, inactivating bacteria, fungi, and enveloped viruses within seconds. Chlorhexidine, a cationic antiseptic, binds to microbial surfaces, destabilizes cell membranes, and provides residual activity, extending protection after application. Together, they ensure broad-spectrum efficacy, combining immediate kill with sustained defense, while maintaining skin hydration when formulated with moisturizing agents.



Direction for Use

Wash and dry hands thoroughly with soap and water. Apply the solution and rub for 1–1.5 minutes to ensure full coverage. Once dry, your hands are completely disinfected with no need for rinsing.

Product Properties

Form	Liquid
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
Chlorhexidine Digluconate
Skin Conditionig Agents
Fragrance

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5011045000
10 Gallons	1 L	5011041000
20 Spray	750 ml	501104750
15 Bottle	500 ml	501104500

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran

Dermapak Ultra



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Contains 70% Ethanol for effective disinfection
- Enriched with Quaternary Ammonium compounds for broad-spectrum antimicrobial action
- Ideal for use in hospitals and healthcare facilities
- Ready-to-use, no rinsing required
- Pleasant fragrance for comfortable application



▶ Application

Dermapak Ultra is an innovative formulation combining high-strength alcohols with complementary disinfectant agents, ensuring rapid and reliable antimicrobial efficacy against a wide range of bacteria and viruses. Its specially designed formula provides a persistent antimicrobial effect, protecting hands from contamination over an extended period.

Thanks to its fast action and long-lasting skin protection, this product is recommended for healthcare workers, hospitals, isolation rooms, kitchens, clinics, and laboratories where exposure to resistant bacteria is likely.

▶ Mechanism of Action

This hand sanitizer combines Ethanol, n-Propanol, Chlorhexidine, and Benzalkonium chloride to provide rapid, broad-spectrum, and long-lasting antimicrobial protection. Ethanol and n-Propanol act immediately by denaturing proteins and disrupting microbial membranes, inactivating bacteria, fungi, yeasts, and enveloped viruses. Chlorhexidine binds to microbial cell surfaces, destabilizes membranes, and delivers a persistent residual effect, prolonging protection. Benzalkonium chloride, a quaternary ammonium compound, further enhances bactericidal and virucidal activity, reinforcing efficacy against a wide range of pathogens. Together, these agents ensure fast-acting, comprehensive, and sustained disinfection, while moisturizing components help maintain skin hydration and comfort.



Direction for Use

Wash and dry your hands first. Apply an adequate amount of Dermapak Ultra and rub for 1–1.5 minutes until hands are fully dry and disinfected.

Product Properties

Form	Liquid
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
n-propanol
Chlorhexidine Digluconate
Benzalkonium Chloride
Skin Conditionig Agents
Fragrance

Packaging per Carton	Volume	Product Code
4 Gallons	5L	5011125000
10 Gallons	1L	5011121000
20 Spray	750 ml	501112750
15 Bottle	500 ml	501112500

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538 - Escherichia coli / ATCC 10536 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1) - Adenovirus Type 5
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Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran

Dermapak Gel



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Instant-effect antiseptic gel for hands and skin
- Contains Ethanol for effective disinfection
- Suitable for everyday and general use
- Ready-to-use, no rinsing required
- Contains skin-conditioning agents to prevent dryness
- Pleasant fragrance for comfortable application



▶ Application

This hand and skin antiseptic gel delivers immediate protection based on ethanol, and is ready-to-use without the need for rinsing. Its formula, enriched with skin-conditioning agents, not only provides effective antimicrobial action but also prevents dryness and irritation, making it ideal for repeated use in public, office, and home environments. Easy to apply and leaving a soft, pleasant feeling after use, this gel is a reliable choice for daily protection against disease-causing agents.

Mechanism of Action

Ethanol is a fast-acting alcohol that effectively inactivates bacteria, fungi, and enveloped viruses by denaturing proteins and disrupting cell membranes. Its rapid evaporation ensures quick antimicrobial action on skin and surfaces. When combined with moisturizing agents, ethanol-based formulations help maintain skin hydration and barrier integrity, preventing dryness and irritation while providing reliable, broad-spectrum disinfection suitable for healthcare and everyday use.



Direction for Use

Dispense a small amount of Dermapak Gel onto your hands and rub for about 1 minute, ensuring full coverage. Once dry, hands are disinfected with no rinsing required.

Product Properties

Form	Gel
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
 Carbomer
 Skin Conditionig Agents
 Fragrance

Packaging per Carton	Volume	Product Code
10 Gallons	1L	5011161000
20 Bottle	500 ml	501116500
15 Bottle	100 ml	501116100
60 Tube	50 ml	50111650

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538 - Escherichia coli / ATCC 10536 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1) - Adenovirus Type 5
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Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran

Dermapak Gel+Vit



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Instant-effect vitamin-enriched antiseptic gel for hands and skin
- Contains Ethanol for effective disinfection
- Suitable for everyday and general use
- Enriched with Vitamin E and Panthenol to protect skin from dryness
- Ready-to-use, no rinsing required
- Pleasant fragrance for comfortable application



► Application

This vitamin-enriched hand and skin antiseptic gel provides immediate antimicrobial protection based on ethanol and is ready-to-use without the need for rinsing. Its formula, enriched with Panthenol and other skin-conditioning agents, not only ensures effective antimicrobial action but also prevents dryness and irritation, making it ideal for repeated use in public spaces, offices, and at home. Easy to apply and leaving a soft, pleasant feeling after use, this gel is a reliable and convenient choice for daily protection against disease-causing agents.

▶ Mechanism of Action

Ethanol is a fast-acting alcohol that effectively inactivates bacteria, fungi, and enveloped viruses by denaturing proteins and disrupting cell membranes. Its rapid evaporation ensures quick antimicrobial action on skin and surfaces. When combined with moisturizing agents, ethanol-based formulations help maintain skin hydration and barrier integrity, preventing dryness and irritation while providing reliable, broad-spectrum disinfection suitable for healthcare and everyday use.



Direction for Use

Dispense a small amount of Dermapak Gel+Vit onto your hands and rub for about 1 minute, ensuring full coverage. Once dry, hands are disinfected with no rinsing required.

Product Properties

Form	Gel
Color	Clear & Blue
(pH-value) 20°C	6 - 8
Density	0.99- 0.98
Shelf life	Month 24

Ingredients

Ethanol 70%
Carbomer
Vitamin E and Panthenol
Skin Conditionig Agents
Fragrance

Packaging per Carton	Volume	Product Code
10 Gallons	1L	5011201000
20 Bottle	500 ml	501120500
15 Bottle	100 ml	501120100
60 Tube	50 ml	50112050

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran

Micropak

Surfopak

Surface disinfectant



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Micropak

Surfopak

Surface disinfectant



Surfopak Surface Disinfectant

Ref. Code

Surfopak-Rapid
for Alcohol Resistant Surfaces

501200

Surfopak-RU
for Alcohol-Sensitive Surfaces

501204

Surfopak-HL
Enzymatic Disinfectant-High Level

501208

Surfopak-CN
Concentrate, No-Rinse

501216

Surfopak-CR
Concentrate, Rinse-off

501212

Surfopak Rapid

(Instant Efficacy)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Fast-acting disinfectant solution with instant efficacy
- Alcohol-based formulation for reliable performance
- Ideal for hospital and medical surfaces resistant to alcohol
- Ready-to-use – no dilution required
- Leaves no stains or residues on treated surfaces
- Free from phenol, aldehyde, and chlorine



▶ Application

Surfopak-Rapid is a ready-to-use, high-performance disinfectant formulated with two powerful alcohols: ethanol and n-propanol. It is designed for rapid and effective disinfection of hospital wards, treatment centers, and clinical environments. With its easy-to-apply formula and compatibility with a wide range of surfaces, Surfopak-Rapid is a frontline choice for infection prevention and hygiene maintenance.

Mechanism of Action

Ethanol and n-Propanol are broad-spectrum alcohols that, by altering protein structures and disrupting cell membranes, lead to the rapid death of microorganisms.

n-Propanol, due to its higher penetration power, provides faster results in shorter contact times. When combined with ethanol, the speed and efficacy of disinfection are further enhanced. The synergistic combination of these alcohols ensures rapid removal of microbial contaminants. This delivers reliable disinfection performance in the shortest possible time. The addition of protective agents prevents material fatigue on metal surfaces and ensuring both safety and durability. The solution dries quickly without leaving stains or residues, making it an excellent choice for alcohol-resistant surfaces that require fast and frequent disinfection.



Direction for Use

Clean the surface from any visible dirt. Spray Surfopak Rapid directly or wipe with a clean cloth soaked in the solution. Once dry, the surface is fully disinfected with no rinsing required.

Product Properties

Form	Liquid
Color	Clear & colorless
(pH-value) 20°C	6.0-7.5
Density	0.92-0.95
Shelf life	Month 24

Ingredients

•Ethanol Alcohol:

A powerful disinfectant agent.

•n-Propanol :

Enhances the antimicrobial effect and boosts disinfectant performance.

•Non-Ionic Surfactant:

Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

Designed exclusively for surface disinfection – not intended for ingestion. In case of accidental swallowing, seek medical attention immediately. Avoid contact with wounds, mucous membranes, and eyes. If contact occurs, rinse thoroughly with plenty of water. Do not mix with other chemical agents. For safe application, always use protective gloves and a mask. Store in its original sealed container, in a well-ventilated area at 15–30 °C. Keep away from freezing temperatures, heat sources, and direct sunlight to maintain product stability.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5012005000
6 Gallons	2 L	5012002000
10 Gallons	1 L	5012001000
20 Sprays	750 ml	501200750

Surfopak RU

(Ready to Use)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Enzymatic disinfectant solution
- Hydrogen Peroxide-based formulation
- Suitable for hospital and medical surfaces sensitive to alcohol
- Ready-to-use – no rinsing required
- Fast-drying, leaves no stains or residues
- Free of phenol, aldehyde, and chlorine



▶ Application

Surfopak RU is an enzymatic disinfectant solution with an advanced formulation based on Hydrogen Peroxide, Peracetic Acid, and specialized surfactants, provided as a ready-to-use solution. It can be used directly and safely without dilution, ensuring high reliability.

Surfopak RU offers a strong and stable disinfecting effect, ideal for high-traffic areas such as patient rooms, critical care units, emergency departments, treatment trolleys, and alcohol-sensitive surfaces.

Mechanism of Action

By generating free oxygen Hydrogen Peroxide and Peracetic acid attack microbial cells and destroy vital components such as proteins, lipids, and nucleic acids. This process leads to a rapid and complete elimination of a wide range of microorganisms, such as Gram-positive & Gram-negative bacteria, Resistant bacterial spores, Fungi and molds, Enveloped and non-enveloped viruses. Due to their high penetration and stability, these agents are highly effective against persistent biofilms and ensure reliable sterilization of medical instruments. Importantly, they provide this antimicrobial efficacy without leaving toxic residues or causing corrosion to sensitive materials and instrument surfaces.



Direction for Use

Remove any visible contamination from the surface. Spray Surfopak RU directly or wipe with a clean cloth soaked in the solution. After drying, the surface is completely disinfected with no rinsing needed.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	3-4
Density	0.95-0.98
Shelf life	Month 24

Ingredients

- Hydrogen Peroxide 2%:**
 A powerful disinfectant agent.
- Peracetic Acid:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5012045000
6 Gallons	2 L	5012042000
10 Gallons	1 L	5012041000
20 Sprays	750 ml	501204750

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):

- Candida albicans / ATCC 10231

According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

Designed exclusively for surface disinfection – not intended for ingestion. In case of accidental swallowing, seek medical attention immediately. Avoid contact with wounds, mucous membranes, and eyes. If contact occurs, rinse thoroughly with plenty of water. Do not mix with other chemical agents. For safe application, always use protective gloves and a mask. Store in its original sealed container, in a well-ventilated area at 15–30 °C. Keep away from freezing temperatures, heat sources, and direct sunlight to maintain product stability.

Certifications

Produced in full compliance with European Union Regulation EC (No. 648/2004). Tested and validated according to EN 10504 and EN 19851 European standards. Licensed by the Iranian Food & Drug Administration. Endorsed by Viromed, accredited reference laboratories under the Institute of Standards and Industrial Research of Iran, Ministry of Health, Ministry of Agriculture, Department of Environment, and the Veterinary Organization. Microbiological efficacy confirmed by the Pasteur Institute of Iran.

Surfopak HL

(High Level)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- High-level enzymatic disinfectant solution
- Hydrogen Peroxide-based formulation
- Suitable for hospital and medical surfaces sensitive to alcohol
- Effective disinfection with an economical formulation
- Fast-drying, leaves no stains or residues
- Free of phenol, aldehyde, and chlorine



► Application

SurfoPak HL is a high-level disinfectant concentrate formulated with 10% Hydrogen Peroxide, Peracetic Acid, and specialized surfactants. It provides a strong and stable disinfecting effect for the specialized disinfection of surfaces exposed to heavy microbial contamination in healthcare and hospital settings.

This powerful oxidative formulation acts rapidly without foaming, making it an ideal choice for operating rooms, ICUs, infectious isolation units, and high-risk contamination areas.

Mechanism of Action

By generating free oxygen Hydrogen Peroxide and Peracetic acid attack microbial cells and destroy vital components such as proteins, lipids, and nucleic acids. This process leads to a rapid and complete elimination of a wide range of microorganisms, such as Gram-positive & Gram-negative bacteria, Resistant bacterial spores, Fungi and molds, Enveloped and non-enveloped viruses. Due to their high penetration and stability, these agents are highly effective against persistent biofilms and ensure reliable sterilization of medical instruments. Importantly, they provide this antimicrobial efficacy without leaving toxic residues or causing corrosion to sensitive materials and instrument surfaces.



Direction for Use

Remove visible dirt from the surface. Dilute the concentrate according to the table below, then spray or spread the solution evenly. After the indicated contact time, the surface is disinfected with no rinsing required. The diluted solution remains effective for up to 14 days after preparation.

Contact Time	Volume	Concentration	Classification
15 Min	20 ml in 1 L	2%	High Risk
10 Min	10 ml in 1 L	1%	Medium Risk
10 Min	10 ml in 1 L	1%	Daily Surfaces

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	3-4
Density	0.99-1.1
Shelf life	Month 24

Ingredients

- Hydrogen Peroxide 10%:**
 A powerful disinfectant agent.
- Peracetic Acid:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5012085000
6 Gallons	2 L	5012082000
10 Gallons	1 L	5012081000

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

Designed exclusively for surface disinfection – not intended for ingestion. In case of accidental swallowing, seek medical attention immediately. Avoid contact with wounds, mucous membranes, and eyes. If contact occurs, rinse thoroughly with plenty of water. Do not mix with other chemical agents. For safe application, always use protective gloves and a mask. Store in its original sealed container, in a well-ventilated area at 15–30 °C. Keep away from freezing temperatures, heat sources, and direct sunlight to maintain product stability.

Certifications

Produced in full compliance with European Union Regulation EC (No. 648/2004). Tested and validated according to EN 10504 and EN 19851 European standards. Licensed by the Iranian Food & Drug Administration. Endorsed by Viromed, accredited reference laboratories under the Institute of Standards and Industrial Research of Iran, Ministry of Health, Ministry of Agriculture, Department of Environment, and the Veterinary Organization. Microbiological efficacy confirmed by the Pasteur Institute of Iran.

Surfopak CN

(Concentrate No-Rinse)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Concentrated surface disinfectant and cleaning solution
- Based on Alkyldiamine compounds
- Suitable for large, non-rinseable surfaces
- Leaves no stains or sticky residues
- Effective disinfection with an economical formulation
- Free of phenol and aldehyde



▶ Application

SurfoPak CN is a concentrated surface disinfectant and cleaning solution, specifically designed for disinfection of large surfaces that cannot be rinsed, such as healthcare centers, operating rooms, laboratories, pharmaceutical production areas, sports halls, hotels, and more.

Its low-foam and controlled-evaporation formulation ensures that after use, the solution dries without wiping or rinsing, effectively eliminates all microorganisms, and prepares the surface for immediate reuse without leaving stains, corrosive effects, or unpleasant odors.

Mechanism of Action

The combination of Alkyldiamine and n-Propanol provides a fast-acting, broad-spectrum antimicrobial effect. Alkyl diamine, a cationic surfactant, interacts with microbial membranes, disrupting lipid bilayers and causing leakage of vital intracellular components. Meanwhile, n-Propanol, a potent alcohol, penetrates the cell and denatures proteins and enzymes, leading to rapid microbial inactivation. Together, they offer synergistic efficacy against bacteria, fungi, yeasts, and enveloped viruses, ensuring reliable disinfection in clinical, laboratory, and industrial environments.



Direction for Use

Dilute Sarfopak CN according to the table below. Clean the surface from visible dirt, then spray or apply the diluted solution directly. After the required contact time, the surface is disinfected without rinsing. The prepared solution can be used for up to 14 days.

Contact Time	Volume	Concentration	Classification
15 Min	20 ml in 1 L	2%	High Risk
10 Min	10 ml in 1 L	1%	Medium Risk
10 Min	10 ml in 1 L	1%	Daily Surfaces

Product Properties

Form	Liquid
Color	Clear & Light Green
(pH-value) 20°C	7,5 – 9,0
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Alkyldiamine 10%:**
 A powerful disinfectant agent.
- n-Propanol:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 2 1 6 5 0 0 0
6 Gallons	2 L	5 0 1 2 1 6 2 0 0 0
10 Gallons	1 L	5 0 1 2 1 6 1 0 0 0

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

Designed exclusively for surface disinfection – not intended for ingestion. In case of accidental swallowing, seek medical attention immediately. Avoid contact with wounds, mucous membranes, and eyes. If contact occurs, rinse thoroughly with plenty of water. Do not mix with other chemical agents. For safe application, always use protective gloves and a mask. Store in its original sealed container, in a well-ventilated area at 15–30 °C. Keep away from freezing temperatures, heat sources, and direct sunlight to maintain product stability.

Certifications

Produced in full compliance with European Union Regulation EC (No. 648/2004). Tested and validated according to EN 10504 and EN 19851 European standards. Licensed by the Iranian Food & Drug Administration. Endorsed by Viromed, accredited reference laboratories under the Institute of Standards and Industrial Research of Iran, Ministry of Health, Ministry of Agriculture, Department of Environment, and the Veterinary Organization. Microbiological efficacy confirmed by the Pasteur Institute of Iran.

Surfopak CR

(Concentrate-Rinse off)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Concentrated surface disinfectant and cleaning solution
- Based on Quaternary Ammonium compounds
- Provides simultaneous cleaning and disinfection
- Suitable for large, washable surfaces
- Effective disinfection with an economical formulation
- Free of phenol and aldehyde



▶ Application

SurfoPak CR is a concentrated surface disinfectant and cleaning solution, specially formulated for effective cleaning and disinfection of large, washable surfaces in hospitals, healthcare centers, public facilities, and production halls. Its controlled-foam formulation allows for uniform distribution over surfaces and prolonged contact of the active ingredients with contaminants. This makes it ideal for floors, washable walls, large plastic and metal surfaces.

SurfoPak CR is a professional choice for environmental health and infection control personnel, especially when simultaneous cleaning and disinfection of high-traffic or contaminated areas is required.

Mechanism of Action

The combination of Benzalkonium Chloride (BAC) and Didecyl Dimethyl Ammonium chloride (DDAC) offers a complementary antimicrobial mechanism within the quaternary ammonium compound (QAC) class. BAC rapidly binds to microbial cell membranes, altering permeability and causing structural disintegration of the lipid bilayer. DDAC, with its longer hydrophobic chains, penetrates more deeply into the membrane and induces irreversible protein denaturation and enzyme inactivation. Acting together, they reinforce each other's bactericidal and virucidal activity, while also providing potent efficacy against yeasts and fungi. This dual-quaternary system ensures broad-spectrum, fast-acting, and reliable disinfection for healthcare, laboratory, and industrial applications.



Direction for Use

Dilute Surfopak CR according to the table below. Clean the surface from visible contamination, then spread the solution evenly with a mop or applicator, ensuring full coverage. After the specified contact time, rinse the surface. The diluted solution remains usable for up to 14 days.

Contact Time	Volume	Concentration	Classification
15 Min	20 ml in 1 L	2%	High Risk
10 Min	10 ml in 1 L	1%	Medium Risk
10 Min	10 ml in 1 L	1%	Daily Surfaces

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	6-8
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Benzalkonium Chloride:**
 A powerful disinfectant agent.
- Didecyl Dimethyl Ammonium chloride:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 2 1 2 5 0 0 0
6 Gallons	2 L	5 0 1 2 1 2 2 0 0 0
10 Gallons	1 L	5 0 1 2 1 2 1 0 0 0

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

Designed exclusively for surface disinfection – not intended for ingestion. In case of accidental swallowing, seek medical attention immediately. Avoid contact with wounds, mucous membranes, and eyes. If contact occurs, rinse thoroughly with plenty of water. Do not mix with other chemical agents. For safe application, always use protective gloves and a mask. Store in its original sealed container, in a well-ventilated area at 15–30 °C. Keep away from freezing temperatures, heat sources, and direct sunlight to maintain product stability.

Certifications

Produced in full compliance with European Union Regulation EC (No. 648/2004). Tested and validated according to EN 10504 and EN 19851 European standards. Licensed by the Iranian Food & Drug Administration. Endorsed by Viomed, accredited reference laboratories under the Institute of Standards and Industrial Research of Iran, Ministry of Health, Ministry of Agriculture, Department of Environment, and the Veterinary Organization. Microbiological efficacy confirmed by the Pasteur Institute of Iran.

Micropak



Insopak

**HOSPITAL
INSTRUMENTS
Disinfectant**



Insopak

Hospital Instruments disinfectant



Insopak Hospital Instruments disinfectant	Ref. Code
Insopak-Rapid for Alcohol Resistant Hospital Instruments	501300
Insopak-RU for Alcohol-Sensitive Hospital Instruments	501304
Insopak-US Concentrate for Ultrasonic Bath	501324
Insopak-MA Concentrate - Medium Level	501320
Insopak-MB Concentrate - Medium Level	501312
Insopak-HP Enzymatic Disinfectant - High Level	501308
Insopak-HE for Endoscopes - High Level	501316

Insopak Rapid

(Instant Efficacy)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Fast-acting disinfectant with immediate efficacy
- Ethanol-based formulation
- Suitable for alcohol-resistant medical instruments
- Ready-to-use – no rinsing required
- Non-corrosive to instruments
- Free from phenol, aldehyde, and chlorine



▶ Application

Insopak Rapid is a ready-to-use, fast-acting disinfectant solution with an optimized formulation based on two highly effective alcohols: Ethanol and n-Propanol.

It is specifically designed for alcohol-resistant instruments and the everyday needs of medical and surgical centers. By accelerating the preparation and disinfection of instruments, Insopak Rapid enhances workflow efficiency in busy hospital departments and clinics, ensuring faster turnaround and reliable hygiene standards.

▶ Mechanism of Action

Ethanol and n-Propanol are broad-spectrum alcohols that, by altering protein structures and disrupting cell membranes, lead to the rapid death of microorganisms.

n-Propanol, due to its higher penetration power, provides faster results in shorter contact times. When combined with ethanol, the speed and efficacy of disinfection are further enhanced. The synergistic combination of these alcohols ensures rapid removal of microbial contaminants. This delivers reliable, disinfection performance in the shortest possible time. The addition of protective agents prevents material fatigue on metal surfaces and preserves instrument coatings, ensuring both safety and durability. The solution dries quickly without leaving stains or residues, making it an excellent choice for alcohol-resistant instruments that require fast and frequent disinfection.



Direction for Use

First, remove any visible contamination from the instrument or device. Spray Insopak Rapid directly onto the instruments or fully cover it with the solution. Once dry, the instrument is completely disinfected and no rinsing is required.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	6.0- 7.5
Density	0.92-0.95
Shelf life	Month 24

Ingredients

•Ethanol Alcohol:

A powerful disinfectant agent.

•n-Propanol :

Enhances the antimicrobial effect and boosts disinfectant performance.

•Non-Ionic Surfactant:

Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.

•Anti-Corrosion Agents:

Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5013005000
6 Gallons	2 L	5013002000
10 Gallons	1 L	5013001000
20 Sprays	750 ml	501300750

Insopak RU

(Ready to Use)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Enzymatic disinfectant solution
- Hydrogen Peroxide-based formulation
- Suitable for alcohol-sensitive medical instruments
- Ready-to-use – no rinsing required
- Non-corrosive to instruments
- Free from phenol, aldehyde, and chlorine



▶ Application

Insopak RU is an advanced enzymatic disinfectant solution, formulated with Hydrogen Peroxide, Peracetic Acid, and specialized surfactants. It is supplied ready-to-use, requiring no dilution, and can be applied directly with maximum confidence. With its powerful and long-lasting efficacy, Insopak RU has been specifically developed for medical and surgical instruments sensitive to alcohol, ensuring reliable and safe disinfection.

▶ Mechanism of Action

By generating free oxygen Hydrogen Peroxide and Peracetic acid attack microbial cells and destroy vital components such as proteins, lipids, and nucleic acids. This process leads to a rapid and complete elimination of a wide range of microorganisms, such as Gram-positive & Gram-negative bacteria, Resistant bacterial spores, Fungi and molds, Enveloped and non-enveloped viruses. Due to their high penetration and stability, these agents are highly effective against persistent biofilms and ensure reliable sterilization of medical instruments. Importantly, they provide this antimicrobial efficacy without leaving toxic residues or causing corrosion to sensitive materials and instrument surfaces.



Direction for Use

First, clean the instrument or device from any visible contamination. Spray Insopak RU directly onto the item or fully cover it with the solution. Once dry, the instrument is completely disinfected and no rinsing is required.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	3- 4
Density	0.92-0.95
Shelf life	Month 24

Ingredients

- **Hydrogen Peroxide 2%:** A powerful disinfectant agent.
- **Peracetic Acid:** Enhances the antimicrobial effect and boosts disinfectant performance.
- **Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- **Anti-Corrosion Agents:** Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 3 0 4 5 0 0 0
6 Gallons	2 L	5 0 1 3 0 4 2 0 0 0
10 Gallons	1 L	5 0 1 3 0 4 1 0 0 0
20 Sprays	750 ml	5 0 1 3 0 4 7 5 0

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Insopak US

(for Ultrasonic Bath)



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Powerful concentrated disinfectant and cleaning agent
- Based on Lauryl Propylene Diamine
- Specifically for instrument disinfection in ultrasonic baths
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol, aldehyde, and chlorine



► Application

Insopak US is a powerful concentrated disinfectant and cleaning agent, specially formulated by harnessing the synergistic effects of Lauryl Propylene Diamine and n-Propanol for the disinfection of instruments in ultrasonic baths. Insopak US is a technologically advanced, effective, and intelligent choice for facilities that rely on standard and high-performance disinfectants in ultrasonic baths to achieve precise instrument sterilization and require error-free operation.

▶ Mechanism of Action

The product penetrates the microbial cell membrane, causing rapid structural damage and functional impairment of bacterial cells. This process ultimately leads to cell death. In addition, the alcohol content disrupts protein structures (denaturation) and enhances penetration into the microbial cell wall. This dual action cell membrane disruption combined with protein denaturation results in rapid and effective antimicrobial activity against bacteria, fungi, viruses, and spores. The formulation demonstrates strong efficacy even in the presence of organic matter and blood residues, ensuring deep penetration and increased effectiveness in medical and specialized instruments. By providing reliable disinfection while preventing microbial resistance, the product protects sensitive and valuable medical devices from chemical damage and ensures safe use.



Direction for Use

Remove any visible contamination from the instrument. Prepare a 2% solution of Insopak US in an ultrasonic bath (20 mL per 1 L of water). Fully immerse the instrument so that all parts are covered. Turn on the device and operate for 15–30 minutes. Afterward, remove the instrument and rinse with distilled water. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Light yellow
(pH-value) 20°C	7.5 – 8.5
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Lauryl Propylene Diamine:**
 A powerful disinfectant agent.
- n-Propanol :**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 3 2 4 5 0 0 0
6 Gallons	2 L	5 0 1 3 2 4 2 0 0 0
10 Gallons	1 L	5 0 1 3 2 4 1 0 0 0

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538 - Escherichia coli / ATCC 10536 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1) - Adenovirus Type 5
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Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Insopak MA

(Medium Level-Alkylamine Based)



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Medium-Level concentrated disinfectant and cleaning agent
- Based on Lauryl Propylene Diamine
- Compatible with a wide range of medical instruments
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol and aldehyde



► Application

Insopak MA is a medium-Level concentrated disinfectant and cleaning agent based on Alkylamine, formulated with a modern and powerful composition for immersion disinfection and cleaning of medical and surgical instruments.

Insopak MA contains a combination of Lauryl Propylene Diamine and Benzalkonium Chloride as active ingredients. The synergistic effect of these two compounds reduces contact time and ensures high performance even in the presence of organic contaminants.

Mechanism of Action

The synergistic effect of Lauryl Propylene Diamine and Benzalkonium Chloride provides a powerful dual mechanism of antimicrobial activity. The diamine compound rapidly disrupts microbial cell membranes through cationic interaction with phospholipids, leading to leakage of vital intracellular components. In parallel, benzalkonium chloride a quaternary ammonium compound denatures proteins and inactivates essential enzymes, further compromising microbial viability. Together, these agents deliver broad-spectrum efficacy against bacteria, fungi, yeasts, and enveloped viruses, ensuring reliable disinfection even in demanding clinical and industrial environments.



Direction for Use

Dilute Insopak MA to 2% in the designated container (20 mL per 1 L of water). Clean the instrument from visible contamination and immerse it completely in the solution. After 15 minutes, remove and rinse with distilled water. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Light Green
(pH-value) 20°C	7.5 – 9.0
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Lauryl Propylene Diamine**
 A powerful disinfectant agent.
- Benzalkonium Chloride :**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5013205000
6 Gallons	2 L	5013201000
10 Gallons	1 L	501320750

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

- | | |
|---|--|
| According to EN 13727
(contact time: 1 minute): | - Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541 |
| According to EN 14561
(contact time: 5 minutes): | - Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541 |

Yeasticidal Activity

- | | |
|---|---------------------------------|
| According to EN 13624
(contact time: 1 minute): | - Candida albicans / ATCC 10231 |
| According to EN 14562
(contact time: 5 minutes): | - Candida albicans / ATCC 10231 |

Fungicidal Activity

- | | |
|---|----------------------------------|
| According to EN 13624
(contact time: 5 minutes): | - Aspergillus niger / ATCC 16404 |
| According to EN 14562
(contact time: 5 minutes): | - Aspergillus niger / ATCC 16404 |

Virucidal Activity

- | | |
|---|---|
| According to EN 14476
(contact time: 3 minutes & 5 minutes): | - Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5 |
|---|---|

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Insopak MB

(Medium Level-Benzalkonium Based)



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Medium-Level concentrated disinfectant solution
- Based on Quaternary Ammonium compounds
- Compatible with a wide range of medical instruments
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol and aldehyde



► Application

Insopak MB is a medium-strength disinfectant concentrate with a powerful and effective formulation based on quaternary ammonium compounds, specifically designed for immersion disinfection and cleaning of medical and surgical instruments in healthcare facilities.

This product can be diluted up to 2% while maintaining its disinfecting power, making it both effective and cost-efficient.

Mechanism of Action

The combination of Benzalkonium chloride (BAC) and Didecyl dimethyl ammonium chloride (DDAC) offers a complementary antimicrobial mechanism within the quaternary ammonium compound (QAC) class. BAC rapidly binds to microbial cell membranes, altering permeability and causing structural disintegration of the lipid bilayer. DDAC, with its longer hydrophobic chains, penetrates more deeply into the membrane and induces irreversible protein denaturation and enzyme inactivation. Acting together, they reinforce each other's bactericidal and virucidal activity, while also providing potent efficacy against yeasts and fungi. This dual-quaternary system ensures broad-spectrum, fast-acting, and reliable disinfection for healthcare, laboratory, and industrial applications.



Direction for Use

Dilute Insopak MB to 2% in the designated container (20 mL per 1 L of water). Clean the instrument from visible contamination and immerse it completely in the solution. After 15 minutes, remove and rinse with distilled water. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Light yellow
(pH-value) 20°C	6 – 8
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Benzalkonium Chloride:**
 A powerful disinfectant agent.
- Didecyl Dimethyl Ammonium chloride:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 3 1 2 5 0 0 0
6 Gallons	2 L	5 0 1 3 1 2 1 0 0 0
10 Gallons	1 L	5 0 1 3 1 2 7 5 0

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Insopak HP

(Hydrogen Peroxide Based)



Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- High-level enzymatic disinfectant solution
- Hydrogen Peroxide-based formulation
- Suitable for alcohol-sensitive medical instruments
- Ready-to-use – no rinsing required
- Non-corrosive to instruments
- Free of phenol, aldehyde, and chlorine



► Application

Insopak HP is an advanced enzymatic disinfectant solution, enhanced with a higher concentration of Hydrogen Peroxide to deliver superior efficacy. It has been specifically formulated for highly contaminated, sensitive medical and surgical instruments.

This product is supplied ready-to-use, requiring no dilution, and can be applied directly with full confidence. With its strong, effective, and long-lasting performance, Insopak HP is specially developed for alcohol-sensitive medical and surgical instruments, ensuring safe and reliable disinfection.

▶ Mechanism of Action

By generating free oxygen Hydrogen Peroxide and Peracetic acid attack microbial cells and destroy vital components such as proteins, lipids, and nucleic acids. This process leads to a rapid and complete elimination of a wide range of microorganisms, such as Gram-positive & Gram-negative bacteria, Resistant bacterial spores, Fungi and molds, Enveloped and non-enveloped viruses. Due to their high penetration and stability, these agents are highly effective against persistent biofilms and ensure reliable sterilization of medical instruments. Importantly, they provide this antimicrobial efficacy without leaving toxic residues or causing corrosion to sensitive materials and instrument surfaces.



Direction for Use

First, clean the instrument or device from any visible contamination. Spray Insopak HP directly onto the item or fully cover it with the solution. Once dry, the instrument is completely disinfected and no rinsing is required.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	3-4
Density	0.95-0.98
Shelf life	Month 24

Ingredients

- **Hydrogen Peroxide 4%:** A powerful disinfectant agent.
- **Peracetic Acid:** Enhances the antimicrobial effect and boosts disinfectant performance.
- **Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- **Anti-Corrosion Agents:** Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5013085000
6 Gallons	2 L	5013082000
10 Gallons	1 L	5013081000

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538 - Escherichia coli / ATCC 10536 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1) - Adenovirus Type 5
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Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Insopak HE

(High Level for Endoscope)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- High-level disinfectant solution
- Glutaraldehyde-based formulation
- Suitable for heat-sensitive instruments and equipment
- Ready-to-use – no dilution required
- Non-corrosive to delicate instruments
- Free from phenol and chlorine



▶ Application

Insopak HE is a high-level, ready-to-use disinfectant solution formulated with Glutaraldehyde, specifically designed for heat-sensitive instruments, endoscopes, and non-autoclavable medical equipment.

Relying on one of the most trusted and globally recommended active ingredients, this product is endorsed by the World Health Organization (WHO) for the disinfection of sensitive medical instruments, including endoscopes and endourological devices.

▶ Mechanism of Action

Glutaraldehyde is a potent biocidal agent that inactivates microorganisms through irreversible alkylation and cross-linking of amino, sulfhydryl, and hydroxyl groups in proteins and nucleic acids. This reaction disrupts enzymatic activity, damages structural proteins, and prevents microbial replication. Its high penetrability allows it to effectively target resilient organisms, including bacterial spores, mycobacteria, fungi, and viruses. As a result, glutaraldehyde is recognized as a gold-standard active for high-level disinfection and sterilization of medical and surgical instruments.



Direction for Use

Remove any visible contamination from the instrument. Fill the designated disinfection container with Insopak HE and immerse the instrument completely in the solution. After 10 minutes, remove and rinse thoroughly with distilled water.

Product Properties

Form	Liquid
Color	Clear & Light yellow
(pH-value) 20°C	7.5 – 8.5
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- **Glutaraldehyde 2.5%:**
A High Level disinfectant agent.
- **Non-Ionic Surfactant:**
Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- **Anti-Corrosion Agents:**
Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5013165000
6 Gallons	2 L	5013162000
10 Gallons	1 L	5013161000

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538
	- Escherichia coli / ATCC 10536
	- Pseudomonas aeruginosa / ATCC 15442
	- Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538
	- Pseudomonas aeruginosa / ATCC 15442
	- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1)
	- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Micropak

Dentapak

Dental Instrument disinfectant



Micropak

Dentapak

Dental Instruments disinfectant



Dentapak Dental Instrument disinfectant	Ref. Code
Dentapak-Quick for Alcohol Resistant Dental Instruments	501400
Dentapak-RU for Alcohol-Sensitive Dental Instruments	501404
Dentapak-US Concentrate for Ultrasonic Bath	501416
Dentapak-Suction Concentrate for Suction Units	501408
Dentapak-Immers Concentrate for Impressions	501412

Dentapak Quick

(Instant Efficacy)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Fast-acting disinfectant solution
- Ethanol based formulation
- Suitable for alcohol-resistant dental instruments
- Ready-to-use – no rinsing required
- Non-corrosive to instruments
- Free of phenol, aldehyde, and chlorine



► Application

Dentapak Quick is a fast-acting disinfectant solution, ready-to-use with an optimized formulation based on high-strength dual alcohols (ethanol and n-propanol). It is specifically designed for alcohol-resistant dental instruments and daily clinical needs in dental centers.

Dentapak Quick accelerates the preparation of instruments and tools, increases throughput in busy and high-usage areas, and speeds up the overall instrument ready-to-use and disinfection process in dental clinics.

Mechanism of Action

Ethanol and n-Propanol are broad-spectrum alcohols that, by altering protein structures and disrupting cell membranes, lead to the rapid death of microorganisms. n-Propanol, due to its higher penetration power, provides faster results in shorter contact times. When combined with ethanol, the speed and efficacy of disinfection are further enhanced. The synergistic combination of these alcohols ensures rapid removal of microbial contaminants. This delivers reliable, disinfection performance in the shortest possible time. The addition of protective agents prevents material fatigue on metal surfaces and preserves instrument coatings, ensuring both safety and durability. The solution dries quickly without leaving stains or residues, making it an excellent choice for alcohol-resistant instruments that require fast and frequent disinfection.



Direction for Use

First, remove any visible contamination from the instrument or device. Spray Dentapak Quick directly onto the instruments or fully cover it with the solution. Once dry, the instrument is completely disinfected and no rinsing is required.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	6.0-7.5
Density	0.92-0.95
Shelf life	24 Month

Ingredients

- Ethanol:**
 A powerful disinfectant agent.
- n-Propanol:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Packaging per Carton	Volume	Product Code
4 Gallons	5L	5014005000
6 Gallons	1L	5014001000
10 Sprays	750 ml	501400750

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):	- Staphylococcus aureus / ATCC 6538 - Escherichia coli / ATCC 10536 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541
According to EN 14561 (contact time: 5 minutes):	- Staphylococcus aureus / ATCC 6538 - Pseudomonas aeruginosa / ATCC 15442 - Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):	- Candida albicans / ATCC 10231
According to EN 14562 (contact time: 5 minutes):	- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404
According to EN 14562 (contact time: 5 minutes):	- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):	- Herpes Simplex Virus (HSV-1) - Adenovirus Type 5
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Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Dentapak RU

(Ready to Use)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Enzymatic disinfectant solution
- Hydrogen Peroxide based formulation
- Suitable for alcohol-sensitive dental instruments
- Ready-to-use – no rinsing required
- Non-corrosive to instruments
- Free of phenol, aldehyde, and chlorine



► Application

Dentapak RU is an enzymatic disinfectant solution with an advanced formulation based on Peracetic Acid, Hydrogen Peroxide, and specialized surfactants, prepared as a ready-to-use solution. It can be used directly and safely without dilution.

With a strong and stable disinfecting effect, Dentapak RU is specifically formulated for alcohol-sensitive dental instruments.

Mechanism of Action

By generating free oxygen Hydrogen Peroxide and Peracetic acid attack microbial cells and destroy vital components such as proteins, lipids, and nucleic acids. This process leads to a rapid and complete elimination of a wide range of microorganisms, such as Gram-positive & Gram-negative bacteria, Resistant bacterial spores, Fungi and molds, Enveloped and non-enveloped viruses. Due to their high penetration and stability, these agents are highly effective against persistent biofilms and ensure reliable sterilization of medical instruments. Importantly, they provide this antimicrobial efficacy without leaving toxic residues or causing corrosion to sensitive materials and instrument surfaces.



Direction for Use

First, clean the instrument or device from any visible contamination. Spray Dentapak RU directly onto the item or fully cover it with the solution. Once dry, the instrument is completely disinfected and no rinsing is required.

Product Properties

Form	Liquid
Color	Clear & Colorless
(pH-value) 20°C	3- 4
Density	0.92-0.95
Shelf life	24 Month

Ingredients

- **Hydrogen Peroxide 2%:** A powerful disinfectant agent.
- **Peracetic Acid:** Enhances the antimicrobial effect and boosts disinfectant performance.
- **Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- **Anti-Corrosion Agents:** Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727 (contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561 (contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624 (contact time: 1 minute):

- Candida albicans / ATCC 10231

According to EN 14562 (contact time: 5 minutes):

- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624 (contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

According to EN 14562 (contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476 (contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5014045000
6 Gallons	2 L	5014041000
20 Sprays	750 cc	501404750

Dentapak US

(for Ultrasonic Bath)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

▶ Key Benefits

- Strong concentrated disinfectant and cleaning solution
- Based on Coco Propylene Diamine
- Specifically for disinfection of dental instruments in ultrasonic baths
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol, aldehyde, and chlorine



▶ Application

Dentapak US is a powerful disinfectant and cleaning concentrate, utilizing the synergistic effect of Coco Propylene Diamine and Benzalkonium Chloride, specially formulated for the disinfection of dental instruments in ultrasonic baths.

Dentapak US is a technologically advanced, effective, and intelligent choice for facilities that rely on standard and high-performance disinfectants in ultrasonic baths to achieve precise instrument sterilization and require error-free operation.

Mechanism of Action

The combination of Coco Propylene Diamine and Benzalkonium Chloride delivers a synergistic antimicrobial effect. Coco Propylene Diamine, a cationic surfactant, disrupts microbial cell membranes by interacting with lipid bilayers, causing leakage of essential cellular components. Simultaneously, Benzalkonium Chloride denatures proteins and inactivates key enzymes, further compromising microbial viability. Together, they provide rapid, broad-spectrum efficacy against bacteria, fungi, yeasts, and enveloped viruses, making the formulation highly effective for healthcare, laboratory, and industrial disinfection applications.



Direction for Use

First, clean the instrument of any visible contamination. Prepare a 2% solution of Dentapak US in the ultrasonic bath (20 mL per 1 L of water). Fully immerse the instrument so that all parts are covered. Turn on the device and operate for 15-30 minutes. Afterward, remove the instrument and rinse with distilled water. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Green
(pH-value) 20°C	6- 8
Density	0.98-0.99
Shelf life	24 Month

Ingredients

- Coco Propylene Diamine:**
 A powerful disinfectant agent.
- Benzalkonium Chloride :**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):
According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231
- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):
According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404
- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 4 1 6 5 0 0 0
6 Gallons	2 L	5 0 1 4 1 6 2 0 0 0
10 Gallons	1 L	5 0 1 4 1 6 1 0 0 0

Dentapak Suction

(for Suction Units)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Medium-Level disinfectant concentrate
- Based on Quaternary Ammonium compounds
- Specifically designed for dental unit suction systems
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol and aldehyde



► Application

Dentapak Suction is a concentrated solution with simultaneous disinfecting and cleaning properties, specifically designed for dental suction systems. It has a powerful and effective formulation based on quaternary ammonium compounds, intended for the disinfection and removal of blood, saliva, and other protein and non-protein residues in tubes and impression components used in dental clinics.

This product can be diluted up to 2%, maintaining its disinfecting power while remaining cost-effective.

Mechanism of Action

The combination of Benzalkonium chloride and Didecyl dimethyl ammonium chloride offers a complementary antimicrobial mechanism within the quaternary ammonium compound class. BAC rapidly binds to microbial cell membranes, altering permeability and causing structural disintegration of the lipid bilayer. DDAC, with its longer hydrophobic chains, penetrates more deeply into the membrane and induces irreversible protein denaturation and enzyme inactivation. Acting together, they reinforce each other's bactericidal and virucidal activity, while also providing potent efficacy against yeasts and fungi. This dual-quaternary system ensures broad-spectrum, fast-acting, and reliable disinfection for healthcare, laboratory, and industrial applications.



Direction for Use

Prepare a 2% solution of Dentapak Suction in a dedicated container (20 mL per 1 L of water). Use approximately 1.5 L of solution per unit to disinfect and clean the suction system. For Aspiration Bowls, add 500 mL of the 2% solution, wait 15 minutes, then rinse with water. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Light yellow
(pH-value) 20°C	6- 8
Density	0.98-0.99
Shelf life	24 Month

Ingredients

- Benzalkonium Chloride:**
 A powerful disinfectant agent.
- Didecyl Dimethyl Ammonium chloride:**
 Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:**
 Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:**
 Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):

- Candida albicans / ATCC 10231

According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
- Meets EN 14885, EN 10504, and EN 19851 standards.
- Licensed and approved by the Iranian Ministry of Health and Medical Education.
- Verified and tested by accredited specialized laboratories.
- Approved by the Environmental & Occupational Health Center of the Ministry of Health.
- Complies with the requirements of the World Health Organization (WHO).
- Certified by Pasteur Institute of Iran and Razi Metallurgical Research Center.

Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 4 0 8 5 0 0 0
6 Gallons	2 L	5 0 1 4 0 8 2 0 0 0
10 Gallons	1 L	5 0 1 4 0 8 1 0 0 0

Dentapak Immerse

(Concentrate for Impressions)

Micropak

Bayerpaul Pharmaceutical Group
Micropak Disinfectant Products

► Key Benefits

- Concentrated disinfectant solution
- Based on Coco Propylene Diamine
- Specifically designed for disinfection of dental instruments and impression components
- Effective disinfection with an economical formulation
- Non-corrosive to instruments
- Free of phenol and aldehyde



► Application

Dentapak Immerse is a concentrated solution with simultaneous disinfecting and cleaning properties, based on Coco Propylene Diamine and n-Propanol, formulated for immersion disinfection of dental instruments, impression components, and other dental accessories in clinics.

This product can be diluted up to 100 times, maintaining its disinfecting power while remaining cost effective.

Mechanism of Action

The synergistic action of Coco Propylene Diamine and n-Propanol ensures rapid and broad-spectrum antimicrobial efficacy. Coco propylene diamine, a cationic surfactant, binds strongly to microbial cell membranes, disrupting lipid bilayers and causing leakage of vital intracellular components. At the same time, n-Propanol, a fast-acting alcohol, penetrates the cell envelope and denatures essential proteins and enzymes, leading to immediate microbial inactivation. Together, they deliver both fast kill performance and residual antimicrobial effect, making the formulation highly effective against bacteria, fungi, and enveloped viruses in medical and industrial disinfection.



Direction for Use

Prepare a 1% solution of Dentapak Immerse in the designated container (10 mL per 1 L of water). Fully immerse the impression instruments, ensuring all parts are covered. After 10 minutes, remove and rinse thoroughly. The diluted solution remains effective for up to 14 days after preparation.

Product Properties

Form	Liquid
Color	Clear & Green
(pH-value) 20°C	6 - 8
Density	0.98-0.99
Shelf life	Month 24

Ingredients

- Coco Propylene Diamine:**
A powerful disinfectant agent.
- n-Propanol:** Enhances the antimicrobial effect and boosts disinfectant performance.
- Non-Ionic Surfactant:** Improve wetting and penetration, ensuring effective disinfection on complex and contaminated surfaces. Also act as degreasing agents to remove fats, proteins, and organic residues.
- Anti-Corrosion Agents:** Protect delicate and high-value instruments from damage, ensuring long-lasting durability.

Antimicrobial Efficacy – Meets European Standards

Bactericidal Activity

According to EN 13727
(contact time: 1 minute):

- Staphylococcus aureus / ATCC 6538
- Escherichia coli / ATCC 10536
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

According to EN 14561
(contact time: 5 minutes):

- Staphylococcus aureus / ATCC 6538
- Pseudomonas aeruginosa / ATCC 15442
- Enterococcus hirae / ATCC 10541

Yeasticidal Activity

According to EN 13624
(contact time: 1 minute):

- Candida albicans / ATCC 10231

According to EN 14562
(contact time: 5 minutes):

- Candida albicans / ATCC 10231

Fungicidal Activity

According to EN 13624
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

According to EN 14562
(contact time: 5 minutes):

- Aspergillus niger / ATCC 16404

Virucidal Activity

According to EN 14476
(contact time: 3 minutes & 5 minutes):

- Herpes Simplex Virus (HSV-1)
- Adenovirus Type 5

Technical & Safety Notes

- For instrument use only – not for consumption.
- In case of accidental ingestion, seek medical attention immediately.
- Avoid contact with eyes and mucous membranes; in case of contact, rinse thoroughly with water.
- Keep away from heat sources and open flames.
- Use this product only in well-ventilated areas.
- For external use only – do not swallow.
- Store at temperatures between 15°C and 30°C, away from direct sunlight and UV radiation.

Certifications

- Manufactured in compliance with EU Regulation (EC) No 648/2004.
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Packaging per Carton	Volume	Product Code
4 Gallons	5 L	5 0 1 4 1 2 5 0 0 0
6 Gallons	2 L	5 0 1 4 1 2 2 0 0 0
10 Gallons	1 L	5 0 1 4 1 2 1 0 0 0



Bayerpaul Group

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