

HMC

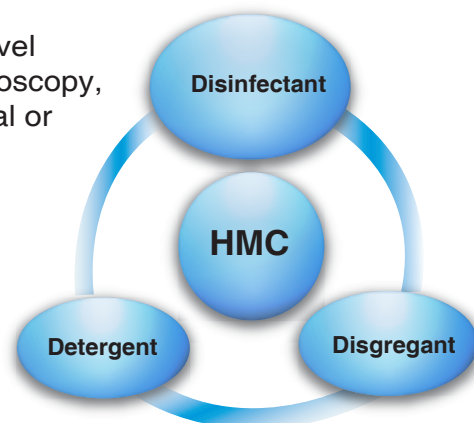
HMC is a water-soluble "Compound Powder" suitable for high level decontamination and disinfection of medical and surgical (Laparoscopy, Flexible Endoscopy, Dental Instruments) in hospitals and medical or dental clinics.

WHY TO USE IT?

- Exclusive formulation
- Environmental friendly.
- 100% Operator Friendly (pH start 8 to 7)
- No extra storage space needed
- It is the more potent antimicrobial agent on demand

HOW TO USE IT?

- ❖ Add the 20gms or one full Spoon HMC Dose to the 1 Liter Normal Tap Water.
- ❖ Shake or Stir until Most of The Powder has dissolved (2/3 Minutes).
- ❖ Allow the solution to sit Undisturbed for 30 Minutes.
- ❖ Immerse The Instrument or Device into the solution 15/20 Minutes.
- ❖ After The Treatment retrieve the Instrument or Device With an Aseptic technique and rinse the medical device or instruments with water. Preferably Sterile Water .
- ❖ Solution Active for One Working Day.



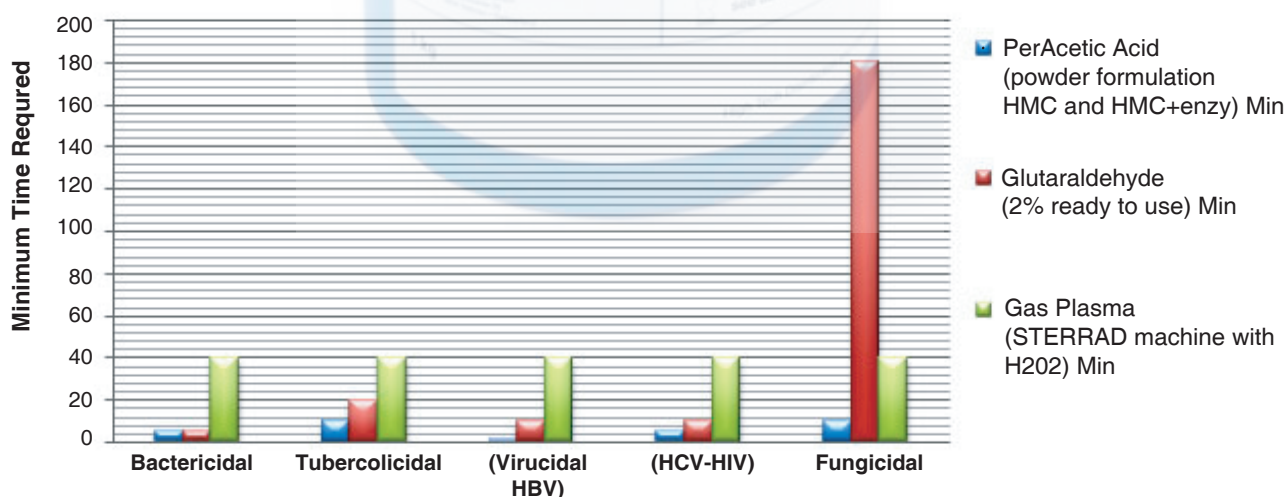
Sporicidal activity of some disinfectants against spores of *Bacillus anthracis* in the presence of 4% horse serum at 20°C

Disinfectant	ppm (%)	Time(h)
Peracetic Acid	2.500 (0.25 %)	0.5
Glutaraldehyde	20.000 (2 %)	2
Formaldehyde	40.000 (4 %)	2

Comparative Analysis

HMC - GLUTARALDEHYDE - GAS PLASMA

Action Time For Activity



HMC - GLUTARALDEHYDE

	HMC - 2.0 %	GLUTARALDEIDE - 2%
High level disinfection	20 minutes	45 minutes
Dangerous exhalation	Non irritant	Strongly irritant
PPE (Personal Protective Equipment)	Non obligatory (Optional)	Obligatory
Disposal process	Free	Under the local law

HMC - GLUTARALDEHYDE - GAS PLASMA

PRODUCT (Active Principle)		PerAcetic Acid (powder formulation HMC and HMC+enzy)	Glutaraldehyde (2% ready to use)	Gas Plasma (STERRAD machine with H2O2)
High Level Disinfection (sporicidal/ virucidal activity)		YES	YES	YES
Action Time for Activity	▪ Bactericidal	5 min	5 min	40-105 min
	▪ Tuberculicidal	10 min	20 min	
	▪ Virucidal (HBV – HCV – HIV)	1 min	10 min	
	▪ Fungicidal	5 min	10 min	
	▪ Sterilizing action –	10-30 min	180-600 min	
	▪ Sporicidal activity			
Cleaning and break up action		YES	NO	NO
Ready solution		Not dangerous	Very dangerous	USABLE ONLY WITH MACHINE
Operator protection		NO	OBLIGATORY	
Solution disposal		Drainage pipe (wash basin)	Special waste	Non toxic
Ventilation		NO	YES	NO
Exercise temperature		Room (25- 30°C)		45° C
Machine		Both Manual / Endo- washing machine	Facoltative	The machine is obligatory

Finding

HMC was specifically designed to satisfy the operator request to have the right amount of PAA to be able to reach the high level disinfection on heat- sensitive medical device in low time and temperature. The **HMC** is a one- shoot product to avoid the crossed contamination between different devices and patients.

PRODUCT	Per Acetic Acid (powder formulation – HMC and HMC+ enzymes)	Glutaraldehyde (2 % read to use)	Gas Plasma (STERRAD machine with H2O2)
POSITIVE	- Very good biodegradability - Very good efficacy Fast dissolution - Cleaning and break up action - Clean solution Good compatibility - Active principle on demand Low operating expenses	- Good compatibility - Low cost per litre	- Any dangerous residual - Very expensive machine (about 65.000 -210.000 €)