

## Instrument cleaning



# PLURAZYME® extra

enzymatic cleaner for surgical instruments and endoscope reprocessing

- strong cleaning power
- concentrate with triple enzyme complex
- ideal for ultrasonic cleaning
- excellent material compatibility

### Product Properties

PLURAZYME® extra offers an excellent material compatibility and is therefore the ideal cleaning concentrate for manual reprocessing of surgical instruments and flexible endoscopes. It is economic in use and recommended for use in ultrasonic baths.

PLURAZYME® extra offers an excellent cleaning performance due to the combination of highly surface active nonionic surfactants and a stabilised triple enzyme complex. The self-acting formula counteracts, penetrates and effectively removes all kinds of organic contaminations such as proteins, coagulated blood, mucus, vomit, fat and fecal matter even in hard-to-reach areas.

### Application area

PLURAZYME® extra is especially suitable for the manual cleaning without protein fixation of:

- all kinds of medical instruments
- rigid and flexible endoscopes
- endoscopic accessories
- ideal for use in ultrasonic baths

### Application

Prepare working solution of 0,4 % PLURAZYME® extra by using 4 ml of concentrate per 1 liter of warm water. The use of warm water (temperature = 30 – 40 °C) is recommended. Immerse instruments and endoscopes into the cleaning solution and ensure a complete wetting of all instrument surfaces and cavities. Completely remove air from lumens. Brush instruments if necessary. Clean endoscope channels mechanically.

Remove cleaned instruments and rinse thoroughly with clear water prior to further reprocessing steps.

### Composition

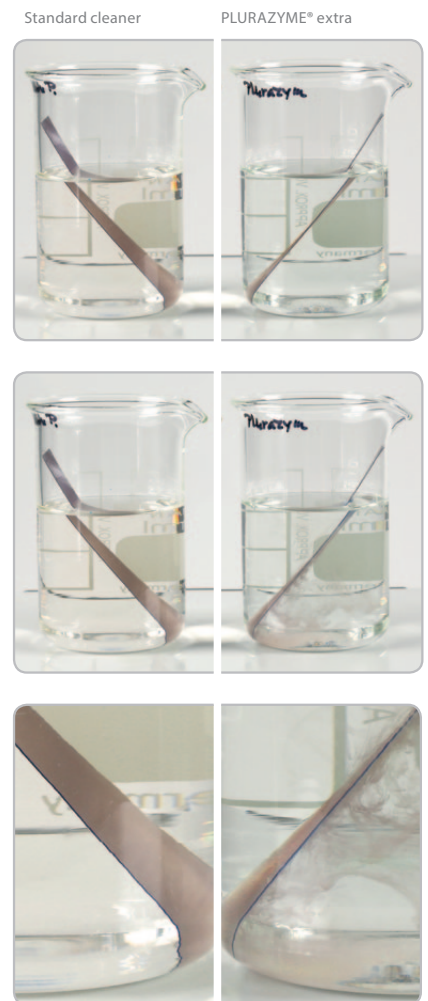
5 – 15 % non-ionic surfactants; preservatives: 2-methyl-2H-isothiazol-3-one, 1,2-benzylisothiazol-3(2H)-one; enzymes: Protease, amylase, lipase

### Chemical Properties

Appearance: Clear blue solution  
pH concentrate: 8.0  
pH solution 0.4%: 7.0 – 7.5

### Examples:

Cleaning performance in comparison to standard cleaners at 40 °C



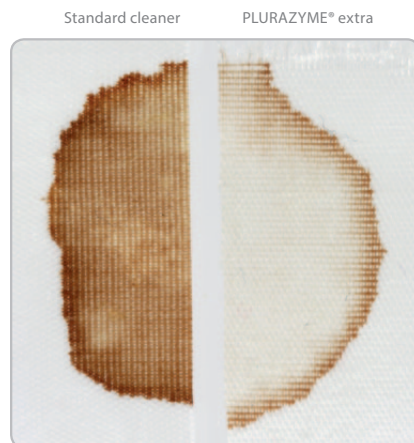
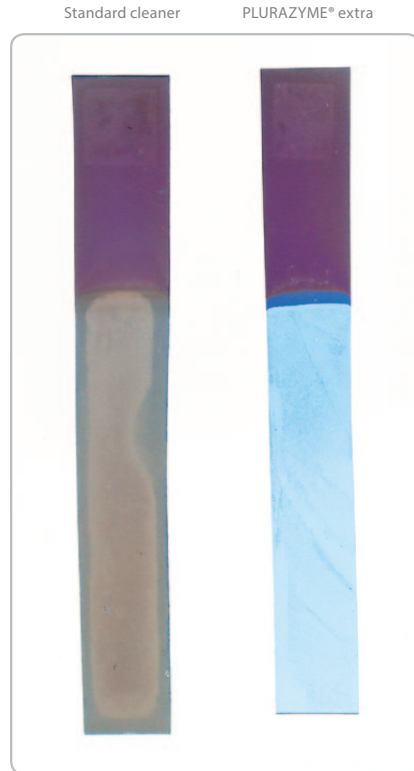
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### Comparison:



### Dosage

Concentration	Temperature	Soaking time
0.25 % (2.5 ml /L) recommended for ultrasonic baths	30 – 40 °C	minimum 5 min.
0.4 % (4 ml /L)	30 – 40 °C	minimum 5 min.

### Additional Information

Causes serious eye damage. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Contains amylase, alpha-; subtilisin; lipase. May produce an allergic reaction.

### Delivery units

Single unit	Delivery unit	REF
1 liter bottle	12	00-138-010EXP
5 liter container	3	00-138-050EXP

### Product Status

PLURAZYME® extra conforms to the EU-guideline 93/42/EC for medical devices. Product for professional use only.

### Environmental Information

The products of Dr. Schumacher GmbH are manufactured according to modern, safe and environmentally friendly processes in compliance with high quality standards.

### Material Compatibility

PLURAZYME® extra offers an excellent material compatibility and has been tested to be suitable for the following materials.

#### Recommended usage:

##### Metals

- Stainless Steel (V2A, V4A)
- Copper
- Aluminum

##### Plastics

- Polymethylmethacrylate (PMMA)
- Polyoxymethylene (POM)
- Acrylonitrile-butadiene-styrene (ABS)
- Polycarbonate (PC)
- Polyurethane (PU)
- Polyethylene (PE)
- Polyamide (PA6, PA12)
- Polystyrene (PS)
- Polyester (PES)

##### Elastomers

- Nitrile Butadiene Rubber (NBR)
- Neoprene, Polychloroprene
- Silicone
- Latex

#### Not recommended for the use on

- Brass
- Ethylene Propylene Diene Monomer Rubber (EPDM)



Dr. Schumacher GmbH is certified according to DIN EN 13485, DIN EN ISO 9001, DIN EN ISO 14001 & BS OHSAS 18001 and has a validated eco management system (according to EMAS).

We are members of IHO, VCI, BAH, DGSV and DGKH.