



ENZYMATIC DETERGENTS EMPOWER™, METRIZYME™ TECHNICAL BULLETIN

Product Description

Metrex™ produces two enzymatic detergents: MetriZyme™ and EmPower™. MetriZyme is a dual enzymatic formula designed for superior performance in the presence of high organic debris and in areas that are hard to reach mechanically (such as endoscope channels). EmPower is formulated with a lower concentration of the same two high quality enzymes found in MetriZyme. EmPower is an economical alternative to MetriZyme when there is moderate to low organic debris. Proper disinfection and sterilization processes have to follow after pre-cleaning procedures.

MetriZyme is designed for cleaning reusable medical instruments and devices (such as endoscopes and surgical instruments) which may be soiled with protein, carbohydrate and lipid containing soil. MetriZyme is a concentrated cleaning solution comprising two protease enzymes (Alcalase 2.5L and Savinase 16.0L) and nonionic surfactant cleaning agents. Alcalase and Savinase are serine-type subtilisin proteases with broad activity for medical device cleaning. The combination of these two enzymes results in a cleaning solution with broad action on a variety of protein soils. The two nonionic surfactants provide significant additional cleaning action on carbohydrate and lipid soils as well as on protein soils. MetriZyme also contains propylene glycol (an enzyme stabilizer), a buffer to maintain pH, a preservative, an antifoaming agent, peppermint oil (for fragrance) and FD&C Blue Dye #1 (to differentiate it from water and other solutions). EmPower has similar general features and benefits of MetriZyme except the total enzyme concentration is 4%. This allows us to offer EmPower at a lower price than MetriZyme. Additionally, EmPower has powerful cleaning agents that will not get cloudy due to an antifoaming agent at the use temperature. Also, EmPower is specifically designed to be low foaming for use in automated washers. EmPower is also specially formulated to be particularly compatible with metals.

Neutral pH

EmPower pH: 7.5-8.5 (as sold)

MetriZyme pH: 6.5-8.5

Material Compatibility

Compatible and safe to use with medical devices and endoscopes.

For additional info, please contact your Metrex sales rep.

Safety Information

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.
For safety information, please refer to SDS.

Enzyme Concentration*

Product	Enzyme Concentration	Recommended Application
MetriZyme	More than 2x	Higher Soil, Ortho, Plastic Surgery, Endoscopy/Gastro
EmPower / EmPower Fragrance Free	1x	General Surgery Centers, Urgent Care, Urology, Podiatry

Dilution Ratio

Product	Manual Cleaning / Ultrasonic	Automatic Reprocessors**
MetriZyme	1 oz to 1 Gallon	1/2 oz to 1 Gallon
EmPower / EmPower Fragrance Free	1 oz to 1 Gallon	1/2 oz to 1 Gallon

*Always refer to product label for correct application directions

**Or follow manufacturer's instructions for dilution.

Ordering Information

Part#	Product	Description Packaging
10-4102	EmPower	2 ounces 48 bottles / case
10-4100	EmPower**	1 gallon 4 bottles / case
10-4150	EmPower	5 gallon 1 drum
10-4130	EmPower	30 gallon 1 drum
10-4400	EmPower Fragrance Free**	1 gallon 4 bottles/case
10-4005	MetriZyme	1 quart 4 bottles / case
10-4000	MetriZyme**	1 gallon 4 bottles / case

All containers are blow molded HDPE. Caps for containers up to one gallon are polypropylene with induction welded inner seal.

**All one gallon or smaller containers are placed in cardboard cases. Bulk sizes are available.

Contact your Metrex representative for more information.