



Enzymatic Detergents Validated for Use with PINNACLE Monitor for Manual Enzymatic Cleaning (MEC)

Detergent Manufacturer	Detergent Evaluated	Manufacturer Recommended Temperature Range ¹	Manufacturer Recommended Use Dilution ¹
ASP®	Enzol®	"Warm Water"	1 – 2 oz/gal
Borer	Deconex® PowerZyme	35°– 40°C	1/2 – 1 oz/gal
Crosstex® ⁵	CrossZyme®	Not stated on label	20:1 to 10:1 ⁶
Cetylite®	Cetyl-zyme Pro-Am®	Room temperature (warm water will optimize enzyme performance)	1 - 2 oz/gal
Enzyme Solutions® ²	Medical Enzyme Detergent	Tap water >27°C	1 oz/gal ²
Getinge ³	Renuzyme Ultra	18 – 60 ° C	1/4 – 1/2 oz/gal ³
Getinge ⁸	Renuzyme Plus	21 – 60 ° C	1 - 2 oz/gal
Germiphene®	Gzyme3	Not stated on label	10ml/4L
Hu-Friedy® ⁷	Enzymax®	32°– 60°C	1 oz/gal
International Products Corporation	Zymit® Low-foam Enzyme Cleaner	-----	1 – 2 %
International Products Corporation	Zymit® Pro Enzyme Cleaner	Less than 52°C	1 – 2 %
Instrument Specialists Inc.	Endo-Terg	Not stated on label	1/2 – 1 oz/gal
Instrument Specialists Inc.	Hemaway Tri-Max Concentrated Enzymatic Detergent	Not stated on label	1/2 – 1 oz/gal
Medline ¹⁰	Dual Enzymatic Detergent	"Warm Water"	1 – 2 oz/gal
Medisafe®	3E-Zyme	Warm water not to exceed 60 ° C	1/2 – 1 oz/gal
Metrex™	Empower®	20°– 40°C	1 oz/gal
Metrex™	Metrizyme®	20°– 40°C	1 oz/gal
MicroCare™	Pro EZ AW Quad™	32°– 43°C	1/2 oz/gal
MicroCare™	ProEZ 1™	32°– 40°C	1 – 2 oz/gal
MicroCare™	ProEZ 2™	32°– 40°C	1/2 – 1 oz/gal
Micro-Scientific	MicroZyme-M™	Warm water	2 – 16 ml/l
Micro-Scientific ⁶	EnzyClean	32° – 60° C	0.4 – 2 ml/l
Micro-Scientific ⁶	EnzyClean IV	16° – 60° C	1/8 – 2 oz/gal
Packers Chemical	EZ-360	35°– 60°C	0.7 – 2.5 oz/gal
Ruhof	Endozime®	"warm water"	1 oz/gal
Ruhof	Endozime® AW Triple Plus w/APA	"works at all temperatures"	1/2 oz/gal
Ruhof	Endozime® AW Plus	-----	1/2 oz/gal

Additional detergents and detergent testing notes are listed on the reverse side of this page

Serim validates detergents by testing the recommended concentration(s) at temperatures recommended for manual cleaning (27 – 44° C) in AAMI ST79.

Detergent Manufacturer	Detergent Evaluated	Manufacturer Recommended Temperature Range ¹	Manufacturer Recommended Use Dilution ¹
Ruhof	Endozyme® Xtreme Power	“works at all temperatures”	1/8 oz/gal
Serchem ⁶	Triple-Zyme	27 – 35 °C	2-4 ml/l
Southmedic	Ecozyme Ultra	20 – 45 °C	1/4 – 1 oz/gal
Southmedic ⁴	Ecozyme™ Auto	“warm water”	1/8 – 1/2 oz/gal
Steris® Corporation	Prolystica®	Do Not Exceed 55°C	1/8 – 1/2 oz/gal
Steris® Corporation	Revital-Ox (Dye & Fragrance Free)	Do Not Exceed 55°C	1/8 – 1/2 oz/gal
Steris® Corporation	Revital-Ox (With Dye & Fragrance Free)	Do Not Exceed 55°C	1/8 – 1/2 oz/gal
Steris® Corporation	Revital-Ox (With Dye & Fragrance)	Do Not Exceed 55°C	1/8 – 1/2 oz/gal
Steris® Corporation	Valsure® Enzymatic Detergent	Do Not Exceed 60°C	1 oz/gal
Stryker ⁹	E62 Enzymatic detergent	11 – 60° C	1/2 oz/gal
Surgiclean®	SurgiSoak®	Less than 65°C	1 oz/gal

Detergent Testing Notes

¹Use specific: See Manufacturers Instruction for additional information on temperature range and dosage. AAMI ST79 recommended range: 27 – 44°C.

²This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process using 1-ounce detergent per gallon of tap water with a temperature greater than 27°C.

³This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process using 1/4-ounce detergent per gallon with a temperature of 40 °C and 1/2 ounce per gallon at 27 °C – 44°C.

⁴This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process using 1/2-ounce detergent per gallon with a temperature of 27 °C and 0.3 – 1/2 ounce per gallon at 44°C.

⁵This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process using 10:1 and 20:1 with temperatures of 44°C and 10:1 at 27 °C

⁶This detergent was validated by an international distributor, Serim has not tested this detergent.

⁷This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process with temperatures greater than 42 °C

⁸This detergent was validated at 1 oz/gal by a potential customer, Serim has not tested this detergent

⁹This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process with temperatures greater than 42 °C

¹⁰This detergent was validated for use with the Pinnacle Monitor for Manual Cleaning Process using 1 oz/gal with temperatures of 43 °C

Some detergent manufacturers may use different brand names for products sold outside of the US. Please check with your detergent sales representative for all brand names questions.

This validated detergent list is updated as new detergents are tested; please contact Serim Research for questions about detergents not included on this list.

Serim's PINNACLE MEC is used to test for active enzymes in manual cleaning solutions. Please review both detergent and instrument IFU's for recommended cleaning instructions.

Serim Research Corporation does not receive endorsements from and is not affiliated with any companies included in this listing.