

Summary of Clinical Trial Results for Enzymatic Detergents

This summary is the result of clinical trials commissioned and performed by the sterile processing department (SPD) of a large hospital system in the Midwest, USA. They shared these results with Patterson Pope for publication with the understanding that their name is not used. The only edits made to this summary is the removal of their name. Patterson Pope is the exclusive provider of Southmedic Inc's EcoZyme in the USA and has been solving problems for healthcare for over 50 years.

INTRODUCTION / SCOPE

According to the Association of Surgical Technologists (AST), Standards of Practice for the Decontamination of Surgical Instruments, page 5, under Standards of Practice III, it states¹;

“Cleaning/detergent agents should be selected that will not damage the cleaning equipment and effectively clean instruments.”

“The following are the ideal characteristics of a cleaning agent.

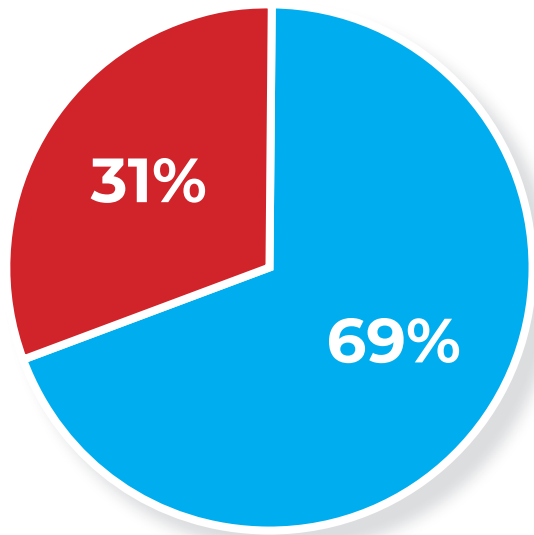
- A. Low sudsing/foaming
- B. Easily rinsed off
- C. Disperse organic soil
- D. Biodegradable
- E. Nontoxic
- F. Nonabrasive
- G. Effective on all types of organic soil
- H. Cost-effective
- I. Long Shelf Life”

Base upon this information, it is the intent of the this hospital system to conduct a trial comparing three enzymatic detergents (**STERIS – Prolystica HP Enzymatic Detergent, Ruhof – Elementum, and Southmedic – EcoZyme**) within 4 locations from Aug 2nd-20th, 2021. The trials will be conducted by the technicians within the hospitals and allow them to compare and evaluate the products to help determine what product will be the best overall fit for them and their colleagues throughout the hospital system. The detergents were tested at each location for 1 week at a time, at the dilution ratio advised by the representatives of each detergent (Steris – 1/8 oz, Ruhof – 1/2 oz, Southmedic – 1/4 oz). The goal of this trial is to determine the best detergent with regards to the above criteria and then standardize upon the decisions reached during this trial throughout the hospital system. Technicians that use the products were required to evaluate the products as Excellent, Good, Average, Fair or Poor. The evaluations were then based upon the percentage of Excellent Ratings as compared to the total possible Excellent Ratings. This was done to alleviate any discrepancies in the number of evaluations completed for each product; however, a minimum of 150 possible Excellent Ratings are required to qualify.

PRODUCT	EVALUATIONS	*POSSIBLE EXCELLENT RATINGS	ACTUAL EXCELLENT RATINGS	PERCENTAGES
Prolystica HP	38	190	38	22%
Elementum	31	155	44	28%
EcoZyme	41	205	142	69%

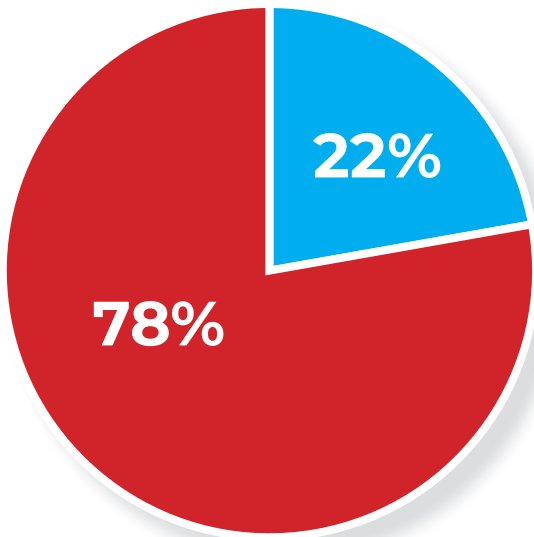
* Each evaluation contained 5 qualities to evaluate (effectiveness, odor, color, ease of use, soak time), giving each evaluator the opportunity to provide as many as 5 excellent ratings per evaluation

¹AST, Association of Surgical Technologists, Standards of Practice for the Decontamination of Surgical Instruments.



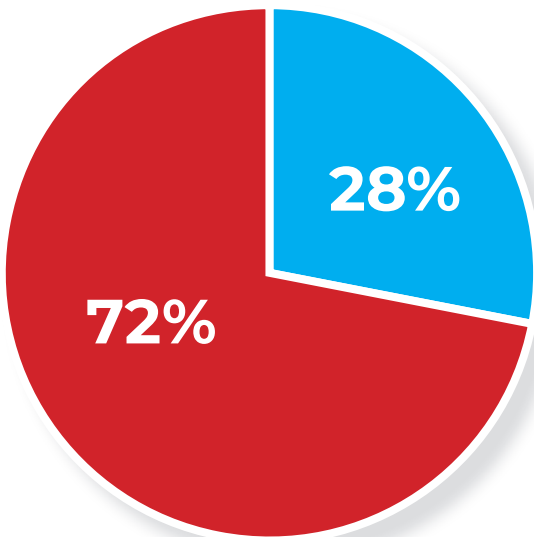
ECOZYME

- Excellent Rating
- Less than Excellent Rating



STERIS - HP

- Excellent Rating
- Less than Excellent Rating



RUHOF - ELEMENTUM

- Excellent Rating
- Less than Excellent Rating

SUMMARY

The results of the trial indicate that EcoZyme was the clear choice of the technicians involved in this trial. In addition to the above ratings, several comments were made on the trial forms indicating a desire to select EcoZyme*;

“The product, unlike the others, has great bio-burden breakdown. [I] would love this for washers.”

“This product is Excellent! It’s better than what we have been using. Bioburden comes right off.”

“This product is very effective and doesn’t irritate my bad allergies that other chemistries/products tend to do on those bad days.”

*please see the trial surveys for additional comments on all detergents

EcoZyme:

- » Cleans without harm – safe for workers, instruments & the environment
- » Non-toxic, 100% biodegradable
- » Removes rust, mineral deposits, staining and spotting
- » Odorless and clean when diluted
- » Comprehensive material compatibility