



FORMULATED CHEMISTRIES FOR DIETARY SUPPLEMENT MANUFACTURERS

IMPROVING CLEANING and BIOBURDEN MANAGEMENT

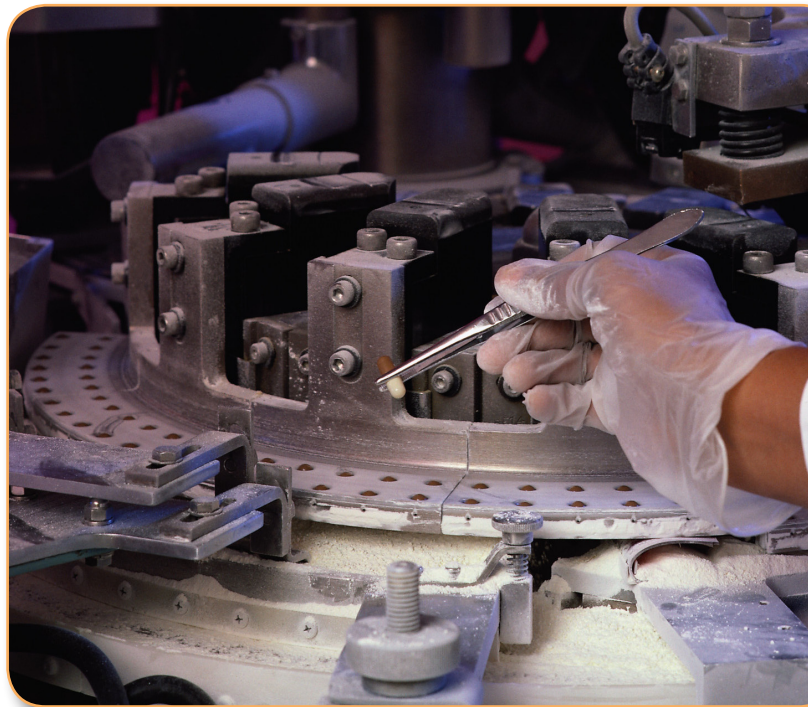
Manufacturing dietary supplements today is more challenging than ever. The combinations of ingredients are increasingly complex and FDA oversight is growing. To address these evolving challenges you need a supplier who can deliver more than just cleaning products.

The STERIS Difference

STERIS is your single experienced resource that not only provides a blueprint for all your cleaning needs, but develops a plan to increase your productivity and manage your risk. STERIS is the leader in validated cleaning and bioburden control in the highly regulated pharmaceutical industry. We can help you. We offer the industry's finest technical support in addition to the most effective products. Our Technical Service group's expertise comes from years of manufacturing, servicing and trouble-shooting validated cleaning and contamination control at our Customers' facilities worldwide. We have proven programs to help put your facility in compliance and the support and expertise to keep you in compliance.

STERIS can Help

- Manual cleaning of surfaces with sensitive substrates
- COP cleaning in washers, recirculation baths and ultrasonic tanks
- CIP cleaning of large vessels and process piping
- Removal of tablet coating residues
- Cleaning of tablet tooling
- Rouge removal and passivation of stainless steel process equipment
- Bioburden control



Designing Effective Cleaning Programs

Our technical support services include the Process And Cleaner Evaluation (PACE[®]) program, which is an evaluation service designed to provide our Customers with recommendations for an effective cleaning process. Once an evaluation has been completed, STERIS provides a report that assists Customers in developing a cleaning process by defining parameters based on chemistry, concentration, cleaning time, temperature, cleaning method and water quality. The PACE program is an essential first step for any cleaning application. A highly qualified, industry recognized team of chemists, microbiologists and engineers is available to offer product and process consultation. STERIS Technical Support currently provides both on- and off-site seminars with topics focusing on process cleaning and cleaning validation. An extensive library of technical data, laboratory reports, analytical methods and case studies have been developed including toxicity and substrate compatibility studies.

Products

STERIS formulated chemistries are designed for your most difficult cleaning challenges. Each product is supported by our industry leading technical support staff as well as an extensive documentation package to help facilitate cleaning validation.

Alkaline Detergents

Alkaline Detergents are used for the majority of cleaning applications due to their ability to penetrate and efficiently remove a wide range of organic residues.

- CIP 100® Alkaline Detergent
 - Formulated for a broad range of residues and applications
- ProKlenz® ONE Alkaline Detergent
 - Formulated for a broad range of residues and applications
 - EPA registered disinfectant and virucide

Neutral Detergents

Neutral Detergents are commonly used in manual cleaning applications or with sensitive substrates due to their mild pH and enhanced compatibility. They may also be used to enhance the performance of other detergents.

- CIP 300® Neutral Detergent
 - Surfactant based formulation
- ProKlenz NpH Neutral Detergent
 - Surfactant and solvent based formulation



Acid Detergents

Acid Detergents are commonly used for the removal of inorganic residues and salts. Additionally, they are widely used for rouge removal and passivation of stainless steel equipment.

- CIP 200® Acid Detergent
 - Phosphoric acid formulation
- ProKlenz TWO Acid Detergent
 - Organic acid formulation
 - Formulated for rouge removal and passivation

Skin Care

An important part of any bioburden control program is personnel skin care. When used properly, these mild, pH balanced products effectively reduce microorganisms found on the skin without causing irritation. Their combination of efficacy and gentleness is ideal anywhere contamination from personnel is a concern.

- Alcare® Plus Foamed Antiseptic Handrub with Emollients
 - Surgical scrub with enhanced emollients
 - Foam formulation
- Cal Stat® Plus Antiseptic Handrub with Enhanced Emollients
 - Healthcare personnel handrub
 - Liquid formulation
- Kindest Kare® Antimicrobial Foaming Handwash
 - Hypoallergenic foaming soap



Disinfectants and Alcohols

The main product in any bioburden control program should be a quality formulated disinfectant. This allows for good surface cleaning and broad spectrum efficacy while having superior material compatibility suitable for routine use.

- Spor-Klenz® Ready-To-Use Cold Sterilant
 - Sporicidal formula for the hardest environmental contaminants to destroy
- LpH® se One Step Germicidal Detergent
 - Phenolic based acidic disinfectant, offers broad spectrum efficacy
- Vesphene® Ilse One Step Germicidal Detergent
 - Phenolic based alkaline disinfectant, offers broad spectrum efficacy
- Process QDS® Process and Research Cleaner
 - Phosphate-free quaternary ammonium disinfectant, for use in disinfecting, sanitizing, and deodorizing hard non-porous surfaces
- Septihol® Ready-To-Use Alcohol Solution - Isopropanol solution, ideal for the removal of process residues



STERIS has a comprehensive offering of detergents, disinfectants, skin care products and sterility assurance products that support your needs. We also have world class technical support to design the most effective cleaning program for your facility. Contact your local sales representative or refer to our website at www.sterislifesciences.com

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