

Charles C. Worthington, 1947

# Bulk/OEM Services Our Driving Force is Quality

The energy that drives all Worthington employees is the deep commitment to consistently produce superior quality products while providing personal service. We factor this into every phase of production, from research and development to final product. New employees join Worthington regularly, yet half have been with the company for over 25 years. Many are related to or are descendants of current and former employees. Their loyalty and pride in Worthington traditions assure continuity in the quality of our products and service.

These diligent, quality-driven experts set the pace in today's enzyme production. They have provided the foundation of Worthington's success for over 70 years.





### 70 Years of Progress

- High quality and consistent enzymes since 1947
- Products produced under GMP guidelines in Worthington's ISO9001 Certified facility in Lakewood, New Jersey USA
- Dedicated bulk and OEM support team
- Extensive range of enzymes and biochemicals with an emphasis on new products
- Animal-free enzymes for pre-clinical, bioprocessing and biopharma applications



# An Emphasis on Continuous Improvement

Our ISO9001 certified enzyme manufacturing facility and proprietary processes are designed specifically for the life science community, bioprocessing and OEM/private label business partners. Unique in this capacity, we are proud to say that over 90% of our products are manufactured at our core facility located in Lakewood, New Jersey, USA.

Our successful track record is proof of our endurance and dedication to the art and

technology of enzyme and protein purification.

Another recent addition to our product line is Celase® GMP, an avian and mammalian tissue-free collagenase and neutral protease enzyme blend produced under cGMP quality conditions by Cytori Therapeutics, a leader in the development of human adipose stem cell isolation therapies for clinical applications. Celase® GMP offers researchers and clinical scientists a single GMP grade enzyme product for primary cell isolation applications from research to clinic.



As a "Primary Producer" we are evolving our technology with innovations, such as Animal-free (AF) products including Collagenases, Proteases, Recombinant DNase I, Ribonuclease T1 and T2, soy and lima bean Trypsin Inhibitors and non-AF Collagenase Types 5, 6 & 7 with higher specific collagenase and caseinase activities.

### As a Primary Producer, We Offer a Wide Range of Products

Please refer to our new catalog or website for a complete list of our enzymes, biochemicals and kits with various grades, specifications and unit definitions. **Worthington-Biochem.com** 

## The Assurance Bulk/OEM Customers Want

- Our Animal-free (AF) products enable you to meet the demand for safer enzymes and biopharmaceuticals, minimizing the potential risks of BSE/TSE and/or mammalian virus contaminants Eliminate many quality and regulatory issues associated with animal-sourced enzymes
- Molecular biologicals for component and OEM applications
   For DNA/RNA, protein digestion and vaccine processing
- USDA or equivalent approved animal sources
   All products suitable for worldwide exportation
- Bulk inventories available for immediate shipment with flexible and responsive production scheduling Minimizes lead times
- Technical expertise direct from the manufacturer **Before**, during and post sale support



Cell Biology
Tissue Dissociation
Collagenases/Proteases

ALD ALD

Bioprocessing
Animal-free Products
Regenerative Medicine
Stem Cell Isolation
Vaccine Processing

Biochemistry Protein Purification DNase/RNase/Trypsin



Molecular Biology Nucleases, Nucleic Acids DNA/RNA Modifying Enzymes

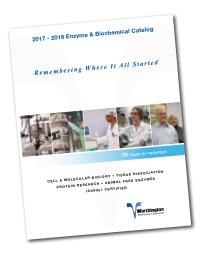


#### Value Verified

Tracking over 100 product citations per month published in scientific journals, we have accumulated a wealth of knowledge for our customers. We have authored numerous technical materials including the Worthington Enzyme Manual and Tissue Dissociation Guide, both available in print and digital formats. To obtain a print version of our new catalog, please go to:

### http://www.worthington-biochem.com/mailingList/request.php

You can order your free copy directly online.



For more information, or assistance with pricing, samples, placement of bulk orders or to discuss your bulk or custom requirements, contact Worthington's Bulk Sales Office:

**Tel:** 610.436.6867 (direct) or 800.445.9603 (corporate) **Fax:** 610.436.8534 (direct) or

800.368.3108 (corporate)

**E-mail:** patrice.smoyer@gmail.com or sales@worthington-biochem.com

# Enzymes and Biochemicals Bulk/OEM Partner Services



ISO9001 Certified Quality Management System All Processes Fully Documented and Traceable (from Raw Materials through Final Shipment)



Primary Producer (For Biotech, Life Science Research, Diagnostic, Biopharmaceutical and Bioprocessing)

Respected Manufacturer of (High Quality, Lot-to-Lot Consistent) Enzymes for Over 70 Years



Multi-Scale Extraction, Fermentation, Protein
Purification, Lyophilization and Packaging Capabilities
Produced Under GMP Guidelines

Internal Testing Capabilities include Enzyme, Protein, and Related Biochemical Analysis and Characterization



Animal-Free Certified and USDA Approved Animal-Sourced Products Suitable for Worldwide Exportation



Flexible and Responsive Production Scheduling Sample Lots and Bulk Inventories Available for Immediate Shipment



Superior Customer Services and Technical Support
— Before, During and After Sale

Volume Purchases, Bulk Packaging, Standing Orders, OEM/Supply Agreements, and Special Arrangements

