



Newgen Biotech USA

(927) 524 - 6664

Jim@newgenbiotech.com

ENZYMES & PRODUCTS

| Enzyme | Activity Range | Source Organism | GMO | ph | Temp C° | Halal | Kosher | FDA MDF | Grade |
|---------------------|---------------------|----------------------------|-----------|-----------|---------|-------|--------|---------|-------------|
| Alpha-Galactosidase | 1,000 - 30,000 Galu | Aspergillus niger | Non - GMO | 1.0 - 7.0 | 30 - 60 | ✓ | ✓ | 31154 | Pharma |
| Amylase, Bacterial | 1,000 - 100,000 BAU | Bacillus amyloliquefaciens | Non - GMO | 4.0 - 8.5 | 25 - 80 | ✓ | ✓ | | Food |
| Amylase, Fungal | 1,000 - 150,000 DU | Aspergillus oryzae | Non - GMO | 3.0 - 7.0 | 25 - 60 | ✓ | ✓ | | Food |
| Beta - Glucanase | 1,000 - 5,000 BGU | Trichoderma reesei (TL) | Non - GMO | 4.0 - 6.5 | 45 - 70 | ✓ | ✓ | | Food |
| Bromelain | 80 - 2,400 GDU | Ananas comosus | Non - GMO | 4.0 - 9.0 | 35 - 65 | ✓ | ✓ | 27172 | Pharma |
| Catalase | 100 - 2500 Baker | Aspergillus niger | Non - GMO | 5.0 - 8.5 | 20 - 60 | ✓ | ✓ | | Food |
| Cellulase | 1,000 - 200,000 CU | Trichoderma reesei (TL) | Non - GMO | 4.0 - 6.5 | 45 - 70 | ✓ | ✓ | | Food |
| Cellulase (AN) | 1,000 - 200,000 CU | Aspergillus niger | Non - GMO | 2.0 - 7.0 | 25 - 70 | ✓ | ✓ | | Food |
| Dextranase | 1,000 - 100,000 IU | Chaetomium erraticum | Non - GMO | 3.0 - 8.0 | 35 - 65 | ✓ | ✓ | | Food/Pharma |
| Diastase, Malt | 100 - 1,000 U | Barley malt | Non - GMO | 2.5 - 9.0 | 30 - 65 | ✓ | ✓ | | Food |
| Glucomylase | 100 - 1,200 GAU | Aspergillus niger | Non - GMO | 3.0 - 5.5 | 40 - 70 | ✓ | ✓ | | Pharma |
| Hemicellulase | 1,000 - 140,000 HCU | Saccharomyces cerevisiae | Non - GMO | 2.0 - 8.0 | 25 - 90 | ✓ | ✓ | | Food |
| Invertase | 1,000 - 200,000 SU | Saccharomyces cerevisiae | Non - GMO | 3.0 - 6.5 | 35 - 70 | ✓ | ✓ | | |
| Lactase, Fungal | 1,000 - 165,000 ALU | Aspergillus oryzae | Non - GMO | 2.5 - 7.0 | 30 - 65 | ✓ | ✓ | 30889 | Pharma |
| Lactase, Yeast | 5,000 NLU | Klavermyces Lactis | Non - GMO | 6.0 - 7.5 | | | | | Food |

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|-------------------------|---------------------|---------------------|-----------|------------|----------|-------|--------|---------|-------|
| Lipase | 1,000 - 150,000 FIP | Rhizopus oryzae | Non - GMO | 4.0 - 8.0 | 25 - 45 | ✓ | ✓ | | Food |
| Lipase (AN) | 1,000 - 150,000 FIP | Aspergillus niger | Non - GMO | 2.5 - 8.0 | 15 - 65 | ✓ | ✓ | | Food |
| Lipase (CR) | 1,000 - 150,000 FIP | Candida rugosa | Non - GMO | 3.0 - 8.5 | 15 - 65 | ✓ | ✓ | | Food |
| Lysozyme | 1,000 - 24,000 U/mg | Egg White | Non - GMO | 3.5 - 7.0 | 30 - 90 | ✓ | ✓ | | Food |
| Nattokinase | 1,000 - 20,000 FU | B. Subtilis natto | Non - GMO | 6.0 - 8.0 | N / A | ✓ | ✓ | | Food |
| Pancreatin, Fungal | 4x | Fungal Blend | Non - GMO | 3.0 - 6.0 | 30 - 70 | ✓ | ✓ | | Food |
| Papain | 70 - 1,000 TU | Carica Papaya | Non - GMO | 4.0 - 10.0 | 25 - 70 | ✓ | ✓ | | Food |
| Pectinase | 1,000 - 200,000 PU | Aspergillus niger | Non - GMO | 2.0 - 4.0 | 30 - 60 | ✓ | ✓ | | Food |
| Pepsin, Fungal (ASP) | 2,000 - 4,500 SAPU | Aspergillus niger | Non - GMO | 1.0 - 4.0 | 30 - 65 | ✓ | ✓ | | Food |
| Peptidase | 1,000 - 500,000 U | Aspergillus oryzae | Non - GMO | 2.5 - 9.0 | 30 - 60 | ✓ | ✓ | | Food |
| Peptidase, Proline Endo | 1 - 10 PPU | Aspergillus oryzae | Non - GMO | 4.5 - 8.5 | 8.0 - 70 | ✓ | ✓ | | Food |
| Phytase | 120 - 11,000 PTU | Aspergillus niger | Non - GMO | 1.5 - 6.5 | 30 - 65 | ✓ | ✓ | | Food |
| Protease AN | 350,000 HUT | Aspergillus niger | Non - GMO | 1.0 - 5.0 | 30 - 65 | ✓ | ✓ | | Food |
| Protease A, Fungal | 1,000 - 500,000 HUT | Aspergillus oryzae | Non - GMO | 3.0 - 6.5 | 30 - 70 | ✓ | ✓ | | Food |
| Protease AM | 1,000 - 100,000 HUT | Aspergillus melleus | Non - GMO | 5.5 - 10.0 | 30 - 55 | ✓ | ✓ | | Food |

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|------------------------|-----------------------|-------------------------|-----------|------------|---------|-------|--------|---------|--------|
| Protease (HU), Fungal | 1,000 - 400,000 HUT | Aspergillus oryzae | Non - GMO | 2.0 - 11.0 | 30 - 70 | ✓ | ✓ | | Food |
| Protease (HUT), Fungal | 1,000 - 500,000 HUT | Aspergillus oryzae | Non - GMO | 2.5 - 6.5 | 25 - 60 | ✓ | ✓ | | Food |
| Protease, Acid Stable | 1,000 - 45,000 SAPU | Aspergillus niger | Non - GMO | 1.0 - 4.0 | 30 - 65 | ✓ | ✓ | | Food |
| Protease, Alkaline | 1,000 - 600,000 PC | Bacillus subtilis | Non - GMO | 7.0 - 10.0 | 25 - 70 | ✓ | ✓ | | Food |
| Protease, Alkaline | 1,000 - 400,000 HU | Aspergillus oryzae | Non - GMO | 5.5 - 9.0 | 40 - 60 | ✓ | ✓ | | Food |
| Protease, Neutral | 1,000 - 500,000 HUT | Aspergillus oryzae | Non - GMO | 3.0 - 6.0 | 25 - 60 | ✓ | ✓ | | Food |
| Serratiopeptidase | 100,000 - 2,200,000 | Serratia sp | Non - GMO | 6.0 - 10.0 | 30 - 60 | ✓ | ✓ | | Pharma |
| Serratiopeptidase EntC | 100,000 - 2,200,000 | Serratia sp | Non - GMO | 6.0 - 10.0 | 30 - 60 | ✓ | ✓ | | Pharma |
| Transglutaminase | 10 - 5,000 U | Aspergillus niger | Non - GMO | 4.0 - 8.5 | 20 - 70 | ✓ | ✓ | | Food |
| Transglucosidase | 100,000 - 1,500,000 U | Aspergillus niger | Non - GMO | 5.0 - 7.0 | 40 - 70 | ✓ | ✓ | | Food |
| Xylanase | 1,000 - 100.000 XU | Trichoderma reesei (TL) | Non - GMO | 3.5 - 6.5 | 40 - 70 | ✓ | ✓ | | Food |

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BETA GLUCANS & BETA IMMUNE

| Beta Glucan | Type | Source | GMO | Halal | Kosher | FDA MDF | Grade |
|-------------|---------|----------|-----------|-------|--------|---------|---------------|
| Beta Glucan | 1,3/1,6 | Marine | Non - GMO | ✓ | ✓ | | Food / Pharma |
| Beta Glucan | 1,3/1,6 | Mushroom | Non - GMO | ✓ | ✓ | | Food |
| Beta Glucan | 1,3/1,6 | Yeast | Non - GMO | ✓ | ✓ | | Food |
| BettHer® | 1,3/1,6 | Marine | Non - GMO | ✓ | ✓ | 31147 | Cosmetic |
| BEITMMUNE™ | 1,3/1,6 | Marine | Non - GMO | ✓ | ✓ | | Food / Pharma |

PRODUCTS

| Product | Form | Source | GMO | Organic | Halal | Kosher | Grade |
|-------------------------|--------------|-------------|-----------|---------|-------|--------|--------|
| Astaxanthin | Oil & Powder | Micro Algae | Non - GMO | | ✓ | ✓ | Food |
| Ecklonia Cava 25:1 | Powder | Plant | Non - GMO | | ✓ | ✓ | Food |
| Fruit Powder, Blueberry | Granules | Plant | Non - GMO | Yes | ✓ | ✓ | Food |
| Fruit Powder, Papaya | Granules | Plant | Non - GMO | Yes | ✓ | ✓ | Food |
| Kombucha | Liquid | Plant | Non - GMO | | ✓ | ✓ | Pharma |
| Notegensing | Powder | Plant | Non - GMO | | ✓ | ✓ | Food |
| Rutin 99% | Powder | Plant | Non - GMO | | ✓ | ✓ | Pharma |

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PROBIOTICS

| | |
|-----------------------------------|---|
| Bacillus clausii | Lactobacillus fermentum |
| Bacillus coagulans | Lactobacillus gasseri |
| Bacillus licheniformis | Lactobacillus helveticus |
| Bacillus subtilis | Lactobacillus lactis |
| Bifidobacterium adolescentis | Lactobacillus plantarum |
| Bifidobacterium animalis (lactis) | Lactobacillus reuteri |
| Bifidobacterium bifidum | Lactobacillus rhamnosus |
| Bifidobacterium breve | Lactobacillus sakei |
| Bifidobacterium infantis | Lactobacillus salivarius |
| Bifidobacterium longum | Lactobacillus spongicus |
| Enterococcus Faecium | Lactococcus lactis |
| Eubacterium faecalis | Saccharomyces cerevisiae |
| Lactobacillus acidophilus | Saccharomyces boulardii |
| Lactobacillus brevis | Streptococcus faecium |
| Lactobacillus bulgaricus | Streptococcus lactis |
| Lactobacillus casei | Streptococcus thermophilus (salivarius) |
| Lactobacillus crispatus | |

We have both blending and testing capability for probiotics in-house. Custom blends upon request.

- 1) For enzymes with special identification such as: Amylase I, Amylase II, Protease 1, Protease II, Protease III, Protease IV, Protease 3.0, Protease 4.5, Protease 6.0, DPPIV, etc. simply advise your Newgen Biotech USA sales agent your needs.
- 2) For Enzymes with special activity nomenclature, for example: Amylase may be DU, BAU, RAU, USP, FIO, NAU, etc; Lactase can be ALU, USP, etc.; Bromelain may be PU, TU, PC, etc.; simply advise your Newgen Biotech USA sales agent your needs.
- 3) Serratiopeptidase EntC is an enteric coated Serratiopeptidase. The coating is known as CAP and used widely in the pharmaceutical and tableting industry. If you have further questions, please advise your Newgen Biotech USA sales agent your needs.
- 4) For Beta Glucans with varying percentages, simply advise your Newgen Biotech USA sales agent your needs.
- 5) BettHer® is a trademark name of marine source Beta Glucan 1,2 / 1,6 for cosmetic industry. We are the sole supplier in the world of this material (it is offered in powder and liquid form).
- 6) Fruit Powder - Newgen Biotech USA offers a wide range of fruit powders. Make requests with your Newgen Biotech USA sales agent.

We are a Pharmaceutical, NSF, and GMP plant as well as a ISO9001, ISO22000. We maintain our stock in our GMP facility in Dallas, Texas for easy distribution.

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