

# CERTIFICATE OF ANALYSIS

Product Description      PECTOLYASE Y-23  
Product Number          P686  
Lot Number                08J68602  
Storage Temperature      2-6° C  
CAS Number                9033-35-6

## Physiochemical Specifications:

| TEST                     | SPECIFICATION                          | RESULTS         |
|--------------------------|--|-----------------|
| Solubility               | Soluble in Water @ 10 mg/mL            | Passes          |
| pH                       | Under Development                      | 6.03            |
| Physical Appearance      |  |                 |
| Color*                   | 2152-60 to 2154-60, HC-32,<br>or HC-35 | 2154-50 Tan     |
| Texture                  | Fine Powder, may form clumps           | Fine Powder     |
| Solution Appearance      |  |                 |
| Clarity                  | Clear                                  | Clear           |
| Color                    | Light Yellow to Orange                 | Light Yellow    |
| Average Time to Dissolve | Within 5 min                           | Passes          |
| Insolubles               | None                                   | Passes          |
| Enzyme Activity          | Minimum 1,000 units/g                  | > 1,000 units/g |

\* Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

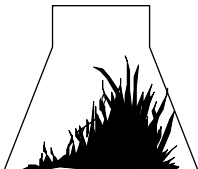
The material described in this certificate is derived from *Aspergillus japonicus*.

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Recommended Shelf Life Date: September 2010



Gary Seckinger, Ph.D.



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### **PhytoTechnology Laboratories, LLC**

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