

NEOPHYTEASE 50

ADVANCED FUNGAL PHYTASE FOR POULTRY

Neophytease is the superior acting and stable phytase from a specially induced microbial strain (Non GMO). Along with Phytase, it also contains fungal amylase, gluco amylase, cellulase, beta glucanase and hemicellulase, which hydrolyses cellulose, beta glucans and xylans. This activity also helps synergistically in releasing of bound organic phosphorus in the plant materials used in feed and also extracting higher energy from the same feed ingredient.

Why Neophytease 50 is More Potent:

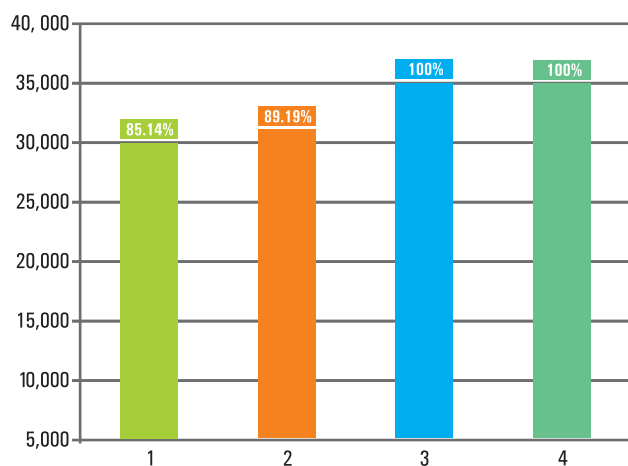
Neophytease 50 is active at pH levels common in the upper digestive tract, where phytate phosphorus digestion is greatest. Compared to other phytases, Neophytease 50 has much higher activity in this pH range.

Diagram of pH profile

Suitable Thermostability:

Neophytease 50 has been developed with relevant thermostability. Neophytease 50 has been studied with heat treatment at 95°C for 1 minute with 20, 30 and 40% moisture. The study data shows excellent relevant thermostability. Data graph is given below. This study has been carried out from 3 batches and tabulated based on average.

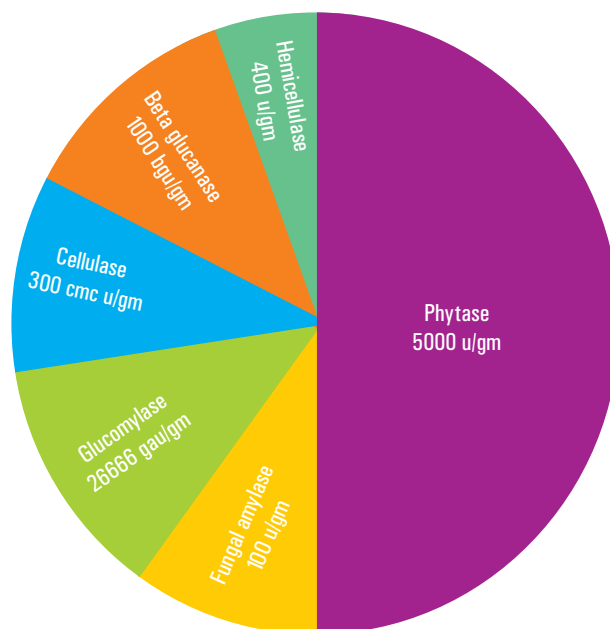
Thermostability of Neophytease 50



- 1 Remaining activity percentage with heat shock at 95°C; 1 minute & Moisture 40%
- 2 Remaining activity percentage with heat shock at 95°C; 1 minute & Moisture 30%
- 3 Remaining activity percentage with heat shock at 95°C; 1 minute & Moisture 20%
- 4 Control percentage with heat shock at 95°C; 30 minutes & Moisture < 5%

Product from ISO 9001:2008, GMP & HACCP Certified Company

Side Activity of Neophytease



- | | |
|----------------|----------------|
| Phytase | Cellulase |
| Hemicellulase | Glucomylase |
| Beta glucanase | Fungal Amylase |

Recommendation

Neophytease 50 is recommended to be used in feed for monogastric animals fed on diets containing plant material. The dosing rate should be suitably fixed after trials. Recommended dose is 500 FTU to 1000 FTU per Kg feed ie 75 – 150 gms /T of feed.

Availability

Neophytease 50 is available in Granular form having Phytase activity > 5000 ftu/gm at 50°C and pH 5.0

Storage & Packing

At room temperature Neophytease 50 maintains its declared activity for at least 12 months. It should be stored under cool and dry condition (< 25°C).

Neophytease is available in standard 20 kg paper bags.