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TECHNICAL DATA SHEET

TDS-ENZ212-EN · REV. 02 · 2026-11-03

Thermostable Phytase Enzyme Livestock

Thermostable phytase for livestock feed that releases phosphorus from phytic acid in poultry and swine diets.

SKU **ENZ212** CATEGORY **ENZYMES FOR ANIMAL FEED** ENZYME CLASS **EC 3.1.3.26** CAS **9001-89-2**

TYPE **FEED GRADE ENZYMES**

Produced by submerged fermentation

Not restricted for transport

ACTIVITY RANGE	WORKING TEMPERATURE	OPTIMUM PH	SHELF LIFE
5,000-100,000 u/g	**30-85°C**	**4.0-6.0**	**12 months**
grade set by dosage tier	no optimum stated	stable pH 3.5-7.0	sealed, see storage below

SPECIFICATION

IDENTITY	
Appearance	Powder Typical
CAS	9001-89-2 Typical
PHYSICAL	
Colour	White to light yellow Typical
Odour	Slight fermentation odour Typical
ACTIVITY	
Activity	**5,000-100,000 u/g** Typical
WORKING WINDOW	
Temperature	30-85°C Typical
pH	Stable 3.5-7.0, optimum 4.0-6.0 Typical

Spec = release limit, confirmed on every lot's Certificate of Analysis. **Typical** = normal product behaviour, not a release limit.

STORAGE & PACKAGING

SHELF LIFE
12 months

STORAGE
Keep sealed in a dry and cool place and avoid direct sunlight.

PACK SIZE
1 kg / bag

ORDERING
Online or by e-mail; current price on the product page

APPLICATIONS

Add to swine and poultry feed
Releases phosphorus from phytic acid in plant material.

Reduce inorganic phosphorus in feed formulations
Lowers phosphate supplementation, saving cost and formulation space.

Hydrolyze phytate in grains and oil seeds
Releases digestible phosphorus, calcium and other nutrients.

Blend into complete feed
Even granulation and granule size support uniform blending.

DOSAGE

100 g/MT (at ≥5000 u/g)

per metric tonne (MT) of complete feed, by activity grade and species

Activity ≥5000 u/g	**Swine 100; Broiler 100; Layer 60; Meat Duck 100 g/MT**
Activity ≥10,000 u/g	**Swine 55; Broiler 55; Layer 35; Meat Duck 55 g/MT**
Activity ≥50,000 u/g	**Swine 11; Broiler 11; Layer 7; Meat Duck 11 g/MT**
Activity ≥100,000 u/g	**Swine 5.5; Broiler 5.5; Layer 3.5; Meat Duck 5.5 g/MT**

Rates are for complete feed, in g per metric tonne (MT).

Each lot is released against its specification; the lot Certificate of Analysis reports the measured values.

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Online: enzymes.bio/product/thermostable-phytase-enzyme-livestock-cas9001892

Enzyme preparations are proteins and may sensitise; avoid skin, eye and inhalation contact. This technical data sheet gives the product specification and typical values; it is not a batch certificate. A Certificate of Analysis for the supplied lot accompanies each shipment. Safety Data Sheet on request.

SCAN TO ORDER