Phytamax™

A scientifically proven premium phytase to drive performance
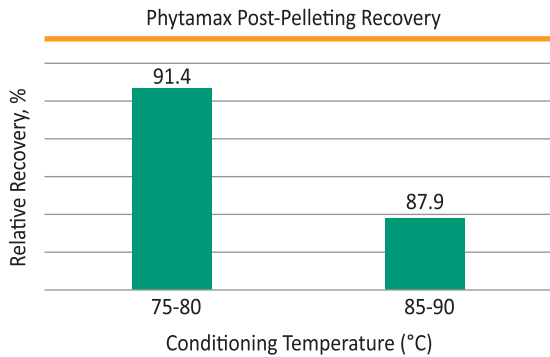and support optimal phosphorus utilization

BRI®

Phytamax™ is a granulated, thermostable phytase for poultry and swine

Phytamax™ degrades phytate at a high rate, thus liberating more of the bound phosphorus in plant ingredients and making it available for the animal's nutritional needs
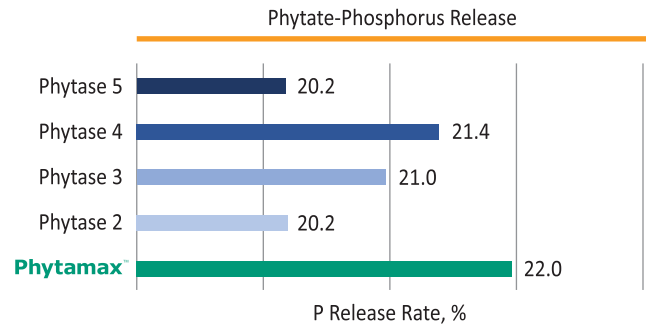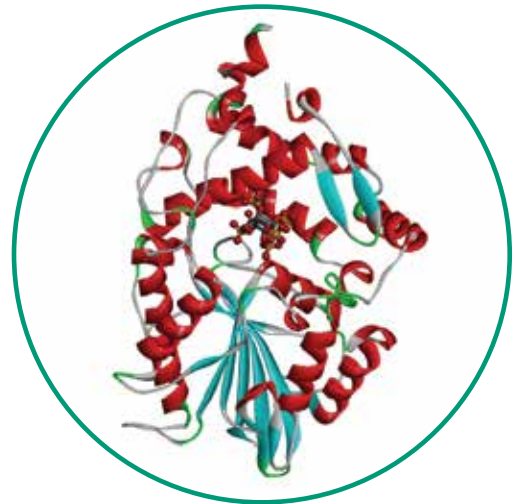
Phytamax™

Phytamax™

Thermostability

Phytamax Post-Pelleting Recovery

Relative Recovery, %

- 75-80: 91.4
- 85-90: 87.9

Conditioning Temperature (°C)

Phytate Degradation

Phytate-Phosphorus Release

	P Release Rate, %
Phytase 5	20.2
Phytase 4	21.4
Phytase 3	21.0
Phytase 2	20.2
Phytamax™	22.0

Premium Phytase

▶ Starts working immediately

▶ Proven record of success

▶ Optimizes animal performance and reduces cost for both poultry and swine

▶ Significantly improves amino acid availability and energy utilization

Phytamax™ is a microbial phytase with activity ≥ 10,000 FTU/g
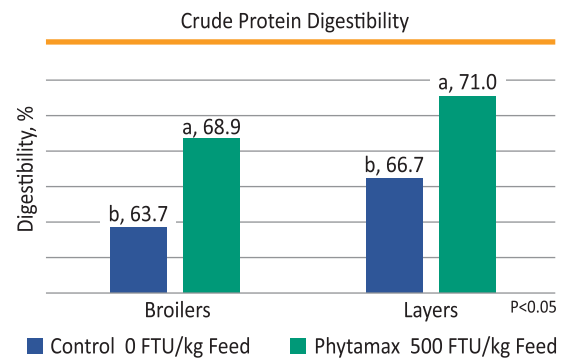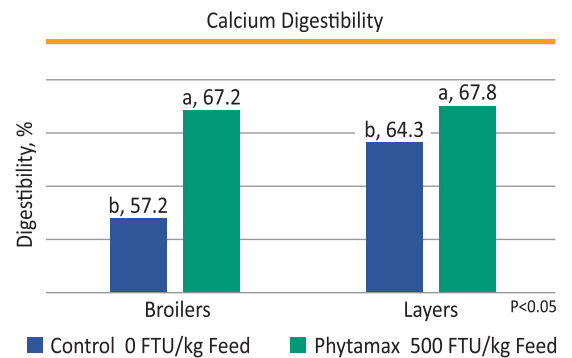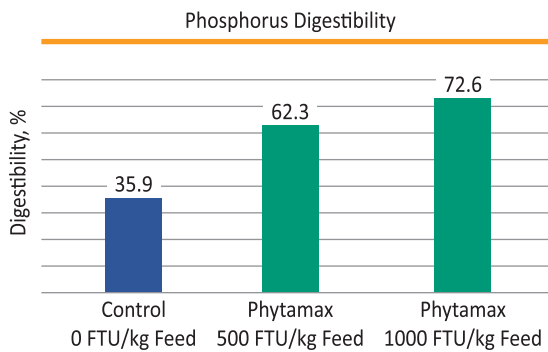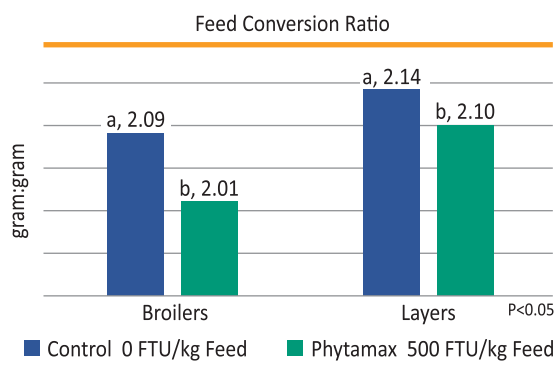
PREMIUM PHYTASE OPTIMIZED FOR

Phytamax™ optimizes animal performance, improves nutrient utilization, and reduces feed cost for both poultry and swine

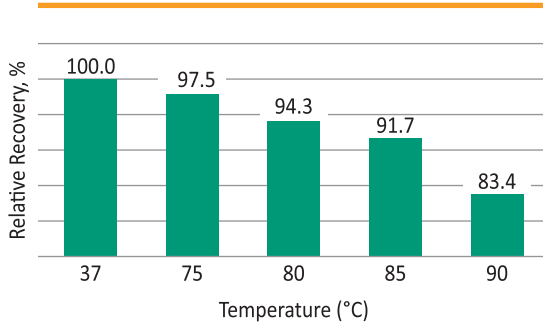## Phytamax significantly improves feed efficiency, across species

Feed Conversion Ratio

gram:gram

a, 2.09
b, 2.01
a, 2.14
b, 2.10

Broilers
Layers
P<0.05

■ Control 0 FTU/kg Feed   ■ Phytamax 500 FTU/kg Feed

Phosphorus Digestibility

Digestibility, %

35.9
62.3
72.6

Control
0 FTU/kg Feed
Phytamax
500 FTU/kg Feed
Phytamax
1000 FTU/kg Feed

Phytamax reduces feed costs and provides >3:1 return on investment

Phytamax™
$$$

Calcium Digestibility

Digestibility, %

a, 67.2
b, 57.2
b, 64.3
a, 67.8

Broilers
Layers
P<0.05

■ Control 0 FTU/kg Feed   ■ Phytamax 500 FTU/kg Feed

Crude Protein Digestibility

Digestibility, %

a, 71.0
a, 68.9
b, 66.7
b, 63.7

Broilers
Layers
P<0.05

■ Control 0 FTU/kg Feed   ■ Phytamax 500 FTU/kg Feed
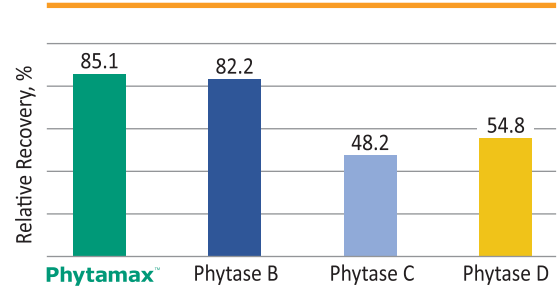
POULTRY AND SWINE

Phytamax is optimized for high activity at low pH and therefore starts working immediately in the upper gastrointestinal tract

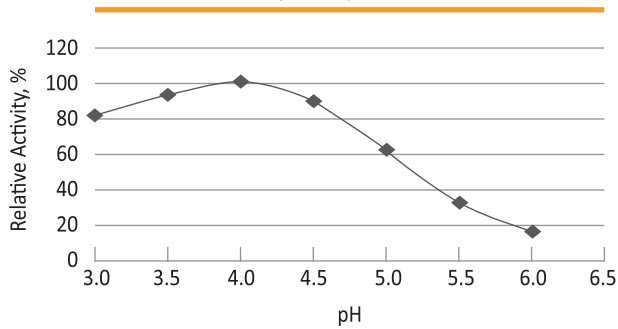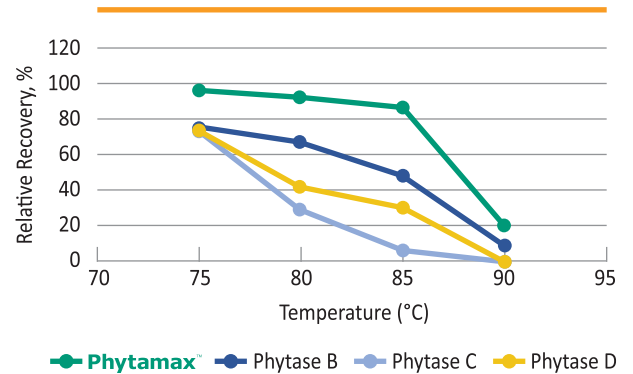### Phytamax Thermostability

Temperature (°C)	Relative Recovery, %
37	100.0
75	97.5
80	94.3
85	91.7
90	83.4

Enzyme Stability at pH 2.5

	Relative Recovery, %
Phytamax	85.1
Phytase B	82.2
Phytase C	48.2
Phytase D	54.8

Phytamax pH Profile

Relative Activity, % vs pH

Heat Resistance

Relative Recovery, % vs Temperature (°C)

Phytamax — Phytase B — Phytase C — Phytase D

Phytamax™

> Phytamax™ is thermostable in temperatures up to 90°C and shows excellent post pelleting recovery

Specifications

Form
Granulated, phytase

Active Ingredients
Phytase fermentation solubles mixed and granulated with starch and calcium carbonate (limestone)

Thermostability
Phytamax is thermostable at pelleting temperatures up to 90°C

Dosage
50-100 g/MT feed

Activity
10,000 FTU/g

Storage/Shelf Life
A minimum shelf life of 18 months from date of manufacture when product is stored in the original sealed bag under dry, cool conditions.

Package
10 kg

▶ Premium phytase

▶ Fast acting

▶ High activity

▶ Optimum return on investment

✖ BRI®

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