

Animal Nutrition



Avizyme® 1505X

**For healthy
nutrition solutions**

The high performance enzyme combination for poultry diets.

Avizyme® 1505X

- An effective combination of xylanase, amylase and protease enzymes to target the key anti-nutrients in mixed grain poultry diets containing vegetable and other protein sources and some high fibre by-products
- Releases encapsulated energy and amino acids providing a reliable solution to your feed formulation needs and opportunities for radical feed cost reduction
- Proven efficacy when present in feed that has been conditioned and pelleted up to 90°C (194°F)

Avizyme® 1505X mode of action

Xylanase

Targets soluble and insoluble arabinoxylans in dietary fibre releasing encapsulated nutrients.

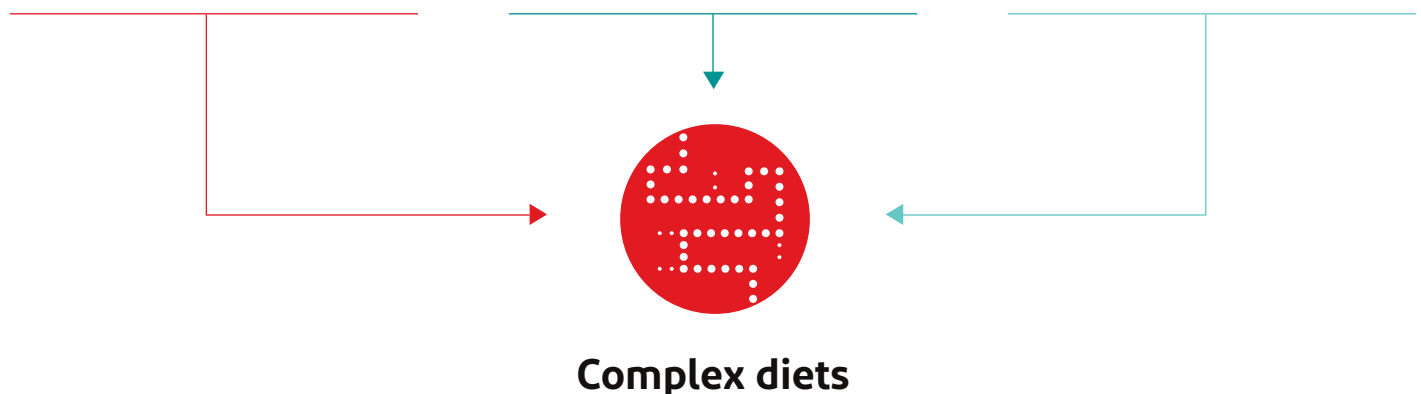
Amylase

Maximises starch digestibility providing energy to fuel growth.

Protease

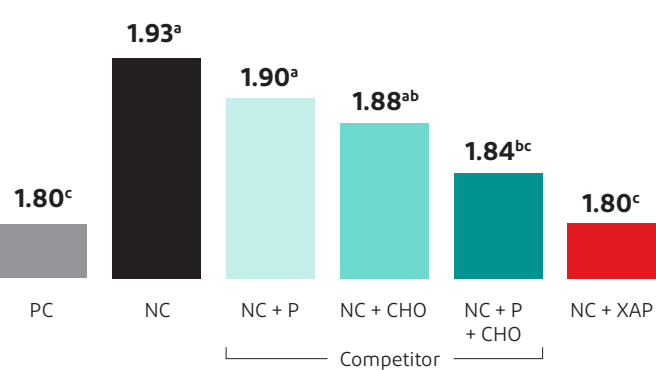
Targets storage proteins in raw materials improving amino acid digestibility and starch accessibility.

Reduces anti-nutrients (e.g. trypsin inhibitors and lectins in vegetable proteins) to limit excessive endogenous losses.



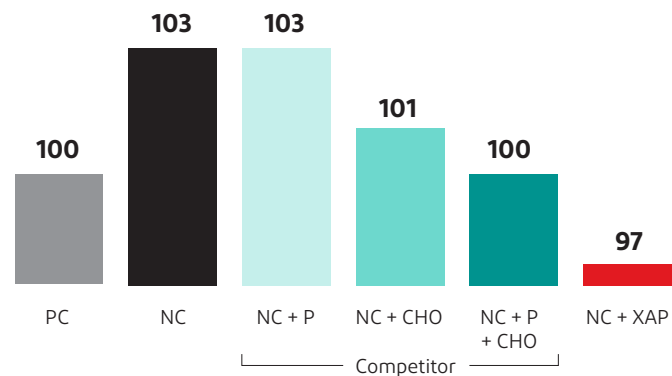
What are the economic benefits of a DuPont Animal Nutrition combination product (xylanase, amylase and protease) versus competitor combined enzyme activities?

FCRc* (1-42 days)



Cost/kg gain (%)

(Relative to PC, including product costs)



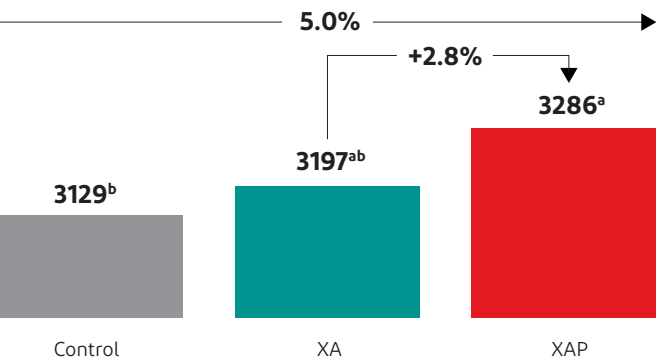
PC = Positive Control NC = Negative Control X = Xylanase A = Amylase P = Protease CHO = A, Beta-glucanase, Xylanase

*FCR corrected 3 points for every 100g difference in bodyweight versus the PC. Mixed grain and high fibre by-product based diets. Relative economics at time of trial. ^{abc} P<0.05

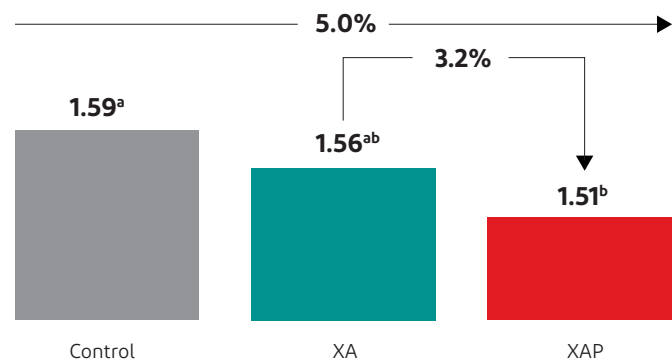
Protease gives additional benefits beyond xylanase & amylase addition

This is particularly beneficial at times of high vegetable protein prices

Bodyweight gain (g, 1-42 days)



FCRc*



X = Xylanase A = Amylase P = Protease

* FCR corrected 3 points for every 100g difference in bodyweight versus the control ^{ab} P<0.05

‘Mixed’ diet containing various protein and energy sources

Product form and application

Avizyme® 1505X is a light brown, fine granular product, included in feed either directly or via a premix.

Recommended usage rate in complete feed

Broilers	0.16-0.25 kg/tonne	0.016-0.025%
Turkeys	0.25 kg/tonne	0.025%
Ducks	0.08-0.25 kg/tonne	0.008-0.025%
Layers	0.25 kg/tonne	0.025%



Supporting software service

Avicheck™ Corn

Packaging

25kg multi-wall polyethylene lined paper bags

1000kg bulk (tote) bags

Want to know more? Visit animalnutrition.dupont.com

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