



Promoting a healthy gut microflora

The gut of any day old chick is almost sterile and, unlike mammals, the bacteria that colonise the gut come from the environment and not from the parent. So hatchery hygiene has become paramount.

We know that challenges occur as the bird matures and pathogens like campylobacter only start to appear after about 28 days, this is especially important in floor raised birds or free range operations.

It is therefore essential to maintain a healthy gut microflora throughout the life of the bird.

Not all products are equally effective.

- Competitive exclusion (CE) provides commensal microflora from a healthy adult to day old chicks. CE products will not be fully effective if the source material is from adult birds on a different diet formulation.
- Probiotics are useful but require daily administration to prevent being flushed through by peristaltic action.
- Acid salts provide no pH benefit

and in dissociated form are less active than liquid products.

- Yeast products have a dose related indirect effect.
- Microencapsulation is expensive and provides low levels of acid salts.
- Mineral carriers provide protection and a commensal platform.

Since antibiotics have been withdrawn from prophylactic use, organic acids now account for over 40% of all antibiotic replacement products.

Mineral carriers for acids do not degrade in the intestine. Partially buffered acids support commensal microflora from the environment, probiotics or CE products.

These commensal bacteria multiply rapidly and discourage proliferation of non-acid tolerant pathogens.

Kiotechagil's pHorce is specifically formulated to work cost effectively with broiler flocks by promoting a healthy gut microflora whatever the source and whatever the diet formulation.

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