

## In-Ovo Feeding to Support and Accelerate Poultry Growth (Yissum)

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### Results in 5% increase in chick's weight and faster time to market

<b>Categories</b>	Agriculture, Animal Science / Veterinary Medicine, Animal Feed / Nutrition
<b>Development Stage</b>	Basic research complete; product file available
<b>Patent Status</b>	U.S. patent 6,592,878 granted; Chinese patent 01813857.8 granted; patent applications in Europe, Israel and Brazil pending
<b>Market</b>	Global poultry bird population stands at 18 billion birds (greater than 86.2 million tonnes), up from 14 billion ten years ago.

### Highlights

- Method for providing nutrition supplements to chick embryos three days before hatching
- As many as 4% of hatchling chickens and turkeys do not survive the critical post-hatch period due to limited body reserves; many survivors show stunted growth, inefficient feed utilization, reduced disease resistance, or poor meat yield.
- Chicks fed within one hour of clearing the shell show accelerated development of the intestine during the post-hatch period, critical for the chick to establish the digestive capacity necessary to meet the demands for early growth and survival.
- Effects of early feeding vary because it depends on voluntary consumption of food by chick.
- In ovo feeding enables broilers to reach market size several days faster than conventional methods

### Our Innovation

Unique in ovo feeding method provides a liquid nutrient supplement of carbohydrates, amino acids, proteins, and other nutraceuticals to chicken embryo three days before hatching.

### Key Features

- Facilitates neonatal development
- Increased hatchling weight, post-hatch survival, meat yield
- Improved tolerance to stress, digestion and nutrient absorption capacity
- Improved immune response to enteric (intestinal) antigens


### Development Milestones

- Seeking cooperation with feed additives company for production and marketing

### The Opportunity

- Company producing these additives has the ability to offer its customers a food additive that will enable them to increase the quality and time to market and thus, profitability, of their chicks.

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