

The **NATURAL DIETETIC**  
**Complementary Feed** that guarantees  
**BREEDING PERFORMANCE**  
during those **critical days**.



**VIGOSINE®**

Vigosine® is a natural palatable syrup designed to increase energy production and metabolic function during **periods of stress** and **heat stress**.





# What is VIGOSINE®?



L-carnitine

Sorbitol

Magnesium sulphate

Selected vegetable extracts

It consists of **four active ingredients** (L-carnitine, sorbitol, magnesium sulphate, selected vegetable extracts: artichoke, ortosiphon, rosemary, boldo) **that act in synergy in two main areas:**

## Optimize the efficiency of energy production from feed by improving:

FATTY ACID METABOLISM AT CELLULAR LEVEL

FEED AND WATER INTAKE

DIGESTIVE ENZYME SECRETION

INTESTINAL MOTILITY

## Support detoxification and elimination of harmful waste products by improving:

CELLULAR DETOXIFICATION (PREVENTION OF LIPID ACCUMULATION AND RELATED SYMPTOMS)

HEPATIC DETOXIFICATION (BILIARY SECRETION)

RENAL DETOXIFICATION (INCREASED DIURESIS)



### What is Carnitine?

The word "carnitine" comes from "carne", latin word for "meat".

This molecule is found in large quantities in animal proteins. The L-carnitine can also be synthesized naturally from **lysine** and **methionine**. The L-carnitine plays a key role in the metabolism of fatty acids: transport into cells and mitochondria + removal of toxic metabolites.

The needs of L-carnitine are increased if there is a significant contribution of fatty acids or a strong mobilization of reserves (stress).



# When to use **VIGOSINE®**?

**VIGOSINE®** can be used in the critical periods of breeding that need increased energy production, affect feed/water consumption or impair anabolic and metabolic function:



**Stress periods**



Periods with increased energy requirement

- ✓ **START-UP, START AND PEAK OF LAYING, DISEASES, FEED TRANSITION**
- ✓ **VACCINATION, TRANSPORT, OTHER MANIPULATIONS, etc.**



Production periods and syndromes associated with imbalanced lipid metabolism

- ✓ **PEAK OF LAY, INTOXICATION, SUDDEN DEATH SYNDROME (SDS), etc.**



**Heat stress**

- ✓ **CHRONIC AND ACUTE HEAT STRESS (PREVENTION AND RECOVERY)**



## How to use **VIGOSINE®**?

*VIGOSINE® should be administered in the drinking water DURING the critical period. There is no withdrawal period for eggs or meat.*

### Two recommendations for poultry:

- Poultry (Layers-Breeders - Broilers)  
= 1-2 L/1000 L of water during 5 days
- Strong heat stress and Palmipeds forced feeding  
= 4 ml/animal/day during 5 days

*In other Species: Bovine, porcine, ovine, caprine, equine, rabbits and small rodents. VIGOSINE® is also used at weaning and all critical growth phases and also for attenuation of stress reactions at any period.*

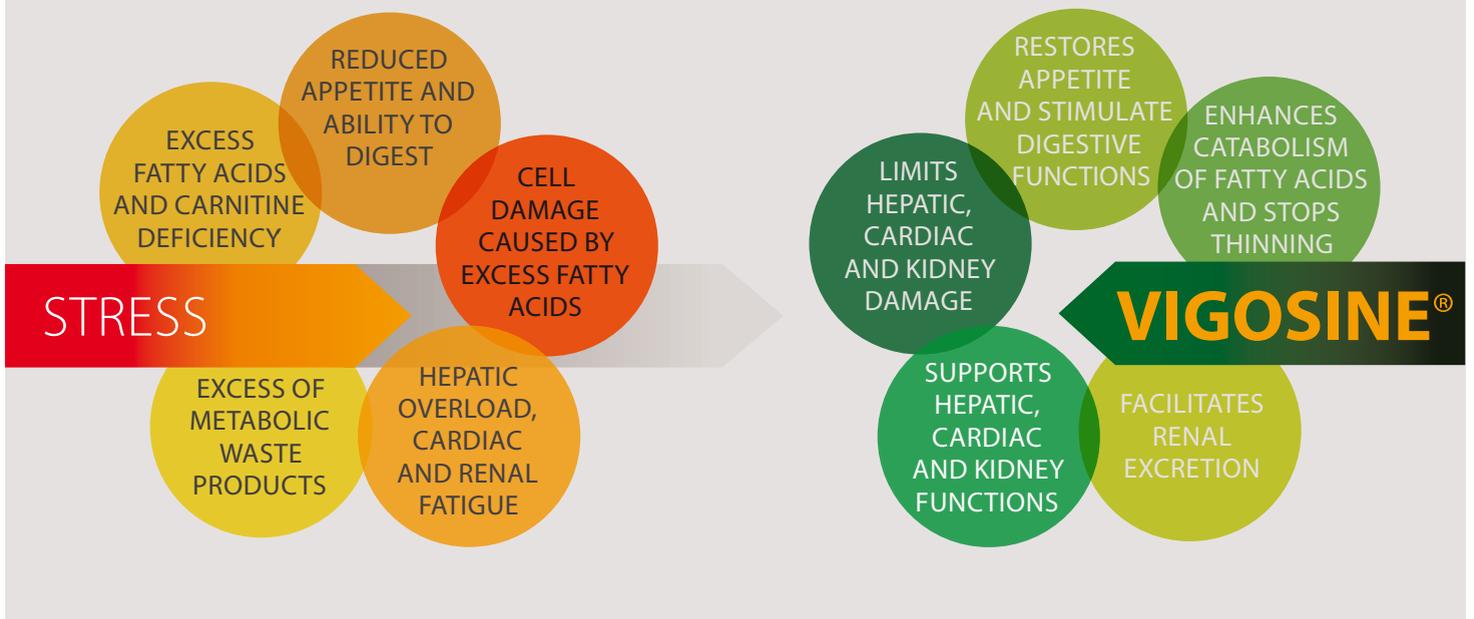
Target species		Recommended dosage
	Poultry	1-2L/1000L of water / 5 days
	Palmipeds	4ml/animal/day / 5 days
	Bovine	50-100ml/animal/day / 5-10 days
	Calf	20ml/50kg/day / 5 days
	Porcine	20-40ml/animal/day / 5 days
	Piglet	5ml/day / 5 days
	Ovine/Caprine	20ml/day / 5 days
	Lamb/Kid	5ml/day / 5 days
	Equine	50-100ml/animal/day / 5-10 days
	Foal	25ml/animal/day / 5 days
	Rabbits, small rodents	1-2ml/day / 5 days



# Why use VIGOSINE®?



**VIGOSINE® acts as a crisis manager:** in case of disturbance of metabolic function it is able to correct impaired metabolic pathways, improve digestive, liver and kidney function and support the proper processes in energy production and waste product elimination. **This results in improvement of performance in those critical periods that normally affect the birds' health, weight gain or feed conversion efficiency.**



## EXAMPLES for use

- ✓ **START-UP OF FLOCKS** > Better start, improved weight gain
- ✓ **AFTER VACCINATIONS** > Manipulation and post-vaccination stress
- ✓ **FEED TRANSITION PERIOD** > To improve feed intake and decrease performance gap
- ✓ **PREVENTION OF SDS\*** > Decreased SDS\* mortality
- ✓ **THINNING PERIOD** > Anti-stress treatment
- ✓ **HEAT STRESS** > Maintained performance and decreased mortality in hot days or during hot summer periods
- ✓ **FINISHING PERIOD** > Improved weight gain in the last days of growing
- ✓ **REGULAR, REPEATED USE** > Enhanced overall performance in broilers or layers

\*Sudden Death Syndrome

Since **VIGOSINE®** consists only of natural substances, it does not have a withdrawal time, and can be used throughout the animal's life. No side effects have been observed following administration of the product, and it is truly compatible with a large number of products.

**VIGOSINE®  
IS VERY SAFE  
TO USE.**

## RESULTS IN PULLETS

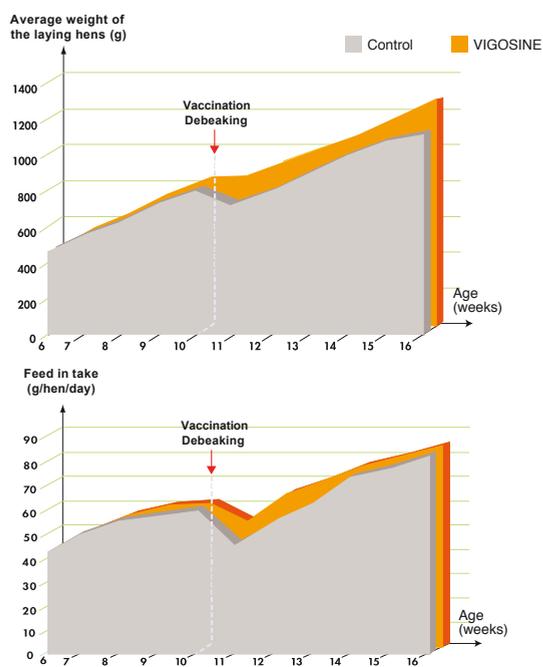
# VIGOSINE®

## RESULTS IN BROILERS

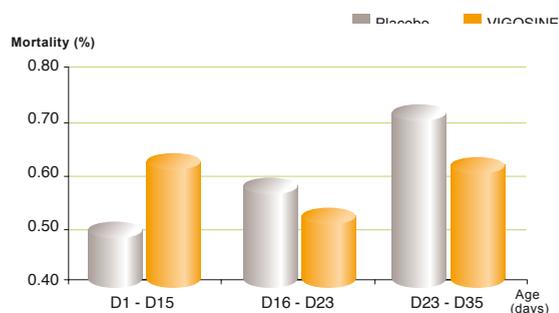
About 54,194 pullets in two houses were caught for vaccination against Fowl pox and LTI and for debeaking at the same time at 10 weeks of age. In the house 1, the birds were given aspirin at a dose of 0,25 g/L for 3 days after the two handlings. The birds in the house 2 were given aspirin at the same dose and VIGOSINE® at 2 ml/L for the 4 days following the two manipulations.

About 26,400 broilers placed in two buildings in a static-ventilation housing (initial density: 22 broilers/m<sup>2</sup>) started suffering from cardiac mortality. This trial assessed the efficacy of VIGOSINE® against a PLACEBO against this syndrome. The products were randomly assigned to the buildings and were added to the drinking water between 16 and 23 days of age for 7 days at 2 ml/litre.

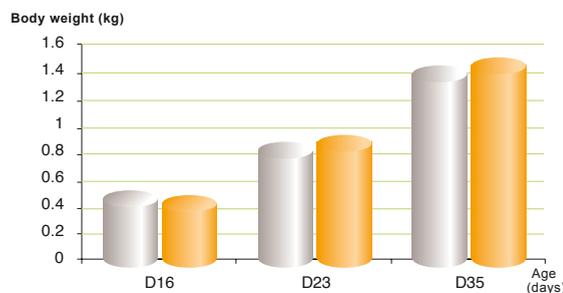
RESULTS OF VIGOSINE® ON CONSUMPTION AND WEIGHT OF PULLETS AFTER DEBEAKING AND VACCINATION



EFFECTS OF VIGOSINE® ON CARDIAC MORTALITY



EFFECTS OF VIGOSINE® ON GROWTH



This trial demonstrates that a moderate use of VIGOSINE® (4 days at 2 ml/litre) enables the pullets under vaccination and debeaking stress to **better recover**.

These results show that VIGOSINE® was able to **reduce the percentage of affected birds with cardiac mortality** while optimizing growth (body weight).

### MORE EXPERIENCES

	ROUTINE USE IN BROILERS FRANCE - 538,000 BROILERS	REGULAR ADMINISTRATION TO LAYERS UKRAINE - 40,000 LAYERS	USE IN THE FINISHING PERIOD IN BROILERS THE PHILIPPINES
VIGOSINE® USE	D = days W = weeks 1 ml/L for 2-7 days on W2 and W5	1-2 ml/L for 2-3 days every 2-3 weeks from W51 of production (W51, 54, 57, 60, 62, 65, 68, 70, 73)	2 ml/L at D35-38
RESULTS	<ul style="list-style-type: none"> <li>• FCR -1.6%</li> <li>• Body weight (D40) +3.3%</li> <li>• ADG +4.7%</li> <li>• Viability +2%</li> <li>• Heart failure -10%</li> <li>• EPEF +16 points</li> <li>• Condemnation -15%</li> </ul>	<ul style="list-style-type: none"> <li>• Egg production +1.3%</li> <li>• FCR -1.7%</li> <li>• Fatty Liver Syndrome decreased</li> </ul>	<ul style="list-style-type: none"> <li>• Body weight +15%</li> <li>• ADG +16%</li> <li>• FCR -13%</li> <li>(in the treatment period: • ADG +92%</li> <li>• FCR -50%)</li> </ul>
NET PROFIT	+0.33 €/m <sup>2</sup>	+85 € / 1000 layers	+245 € / 1000 chickens

# VIGOSINE®

To improve the energy production and metabolic function during periods of stress and heat stress.



## REFERENCES

- **ARSLAN, C.** L-carnitine and its use as a feed additive in Poultry feeding a review. *Revue de médecine vétérinaire*, 2006, 156, 3, 134-142.
- **ASLAM and al.** Effect of stress following vaccination against Newcastle Disease broilers. *JAPS*, 2005, Vol. 15, n°34, p.56-59.
- **KHALED-N-F and al.** Influence of dietary L-carnitine supplementation on performance, serum traits, carcass composition and stress responses of broilers fed low-or high-fat diets *Vetrinary Mediacl journal GIZA*, 2005, vol. 53; n°2, p.577-590.
- **GOSH-ASHOK and al.** Stress and avian adrenal function *Biomedical research*, 2002, Vol 13, n°2-3, p.60-74.
- **LARBIER M., LECLERCQ B.** Métabolisme énergétique. In: *nutrition et alimentation des volailles*, Editions INRA 1992, p.63-90.

**PROPERTIES:** Poultry: VIGOSINE® is used in critical growth phases and for attenuation of stress reactions during any period. Additionally, it can be used in the period preceding and during the forced-feeding in palmipeds. Bovine, porcine, ovine, caprine, equine, rabbits and small rodents: VIGOSINE® is used in weaning and critical growth phases and also for attenuation of stress reactions at any period. **ADDITIVES:** L-carnitine, vegetal extracts (artichoke, orthosiphon, rosemary, boldo), sorbic acid. **COMPOSITION:** Sorbitol 250 g/L, Magnesium sulphate heptahydrate 250 g/L, Propylene glycol 50 g/L. **ADMINISTRATION:** Oral route. Mix in the drinking water or top dress on feed. Manufacturer: a FR 22 136 039. VIGOSINE®, is available in 1 and 5 Liters bottles with internal dosing cup.

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