

HELPING ANIMALS FIGHT OXIDATIVE STRESS



Selisseo® is the only hydroxy-selenomethionine on the market Fully delivering the benefits of organic selenium for better reproduction performance, enhanced stress resistance and immunity, optimal growth and high quality of end-products.





SELISSEO[®] HELPS ANIMALS FIGHT OXIDATIVE STRESS

Selisseo[®] contains 100% hydroxy-selenomethionine (OH-SeMet),

a pure and highly available form of organic selenium, enhancing the antioxidant defences of animals, and improving their reproductive and productive performance, as well as the end-product quality.

SELENIUM (Se) **SELISSEO[®]** is an essential nutrient for life (EU registration 3b814) 0 With established requirement from 0.1-0.3 ppm is a pure source of OH-SeMet to support basic functions. At the 2014 SPACE exhibition in France, Se Although inorganic Se sources are commonly Selisseo® received the highest 3-Star used as feed supplements, recent research Innov'Space Award. This award OH has firmly confirmed that organic Se sources, H₃C recognizes new product innovation. specifically selenomethionine (SeMet) or OH hydroxy-selenomethionine (OH-SeMet), are much more easily utilized. **100% EFFICIENT** PURE It contains 100% OH-SeMet and It is a well-defined is fully absorbed by the animal. chemical molecule: OH-SeMet, easy to analyze by HPLC. SAFE & EASY TO USE Its consistent particle size without RELIABLE fines makes it safe and easy to mix it provides 100% active OH-SeMet into the feed, with low dust. batch after batch. STABLE

It can withstand extreme feed processing conditions including high temperatures & pressures.

RECOMMENDED USAGE*

Selisseo® 2% Se: 10-15 g/MT of feed Selisseo® 0.1% Se: 200-300 g/MT of feed Selisseo® 2% Se: 10 mL/T of feed *vary per regulation and country

THE ANTIOXIDANT FUNCTION OF SELENIUM

At cellular level, stress translates into increased production of oxidative species, upsetting the balance between prooxidants and antioxidants and damaging cell structures.

Selenium, a key player in antioxidant defences:

Selenium is present in 2 amino acids: the storage form selenomethionine (SeMet) replaces regular methionine in proteins; the active form selenocysteine (SeCys) is found only in the catalytic site of several proteins called selenoproteins. Several of these selenoproteins are antioxidant enzymes.

Selisseo[®] promotes the functional form of selenium, **SeCys**, present in selenoproteins that maintain the oxidative balance in spite of external stresses.



Selisseo® is the most efficient organic Se source inducing both higher Se deposition and a higher SeCys content, thus providing animals with high antioxidant capacities.

POULTRY

BREEDER

Selisseo® improves reproduction performance in breeders.

- Fertility rate +3.5%
- Higher hatchability: **+10.8%**⁽¹⁾
- Enhanced antioxidant status: +19% GPx*(2) offering greater robustness of day-old chicks.





PIGLET

thanks to:

14

8

6

13 08

SWINE

BREEDER

FERTILITY Organic selenium helps:

- Improve sow fertility through better ovarian follicular development, Optimal ovulation, better fertilisation, better embryonic development and implantation.
- Improve boar fertility throug better spermatozoa motility and survival. Ref: Selenium in sow nutrition, Animal Feed Science and Technology, P.F. Surai, V.I. Fisinin.

PROGENY STATUS

Sows fed Selisseo® (0.3 ppm) from day 84 of gestation until the end of lactation were able to better transfer Se to piglets through milk, resulting in:

- Higher Se content in the muscle of piglets at 21days: +46%(6)
- Higher antioxidant capacity at 21 days: +16% serum GPx activity

Better Se transfer through colostrum was also observed and resulted in better immunity.



BROILER

Selisseo[®] alleviates the effect of stress on growth and allows birds to maintain higher levels of performance and better meat quality parameters.

- Better selenium deposition: +39% Se in breast muscle and induces two times more Se-Cys deposition than Se-yeast at 21 days of age. (2013. Briens et al., British J. Nutrition. 110: 617-624)
- In 42-day broilers, +48% Se deposition in muscle compared to Se-yeast. (2014. Briens et al., Poultry Science. 93:85-93)



IAYFR

Selisseo® promotes higher egg production.

- Selenium enriched eggs: +50% selenium content⁽³⁾
- Improved and longer freshness: +78% Haugh units after 10 days storage⁽⁴⁾
- Better albumen viscosity: +55%⁽⁵⁾





Weaning is a delicate phase of swine production. It is also around that time that the pigs are vaccinated against various diseases. Selisseo® fed piglets can better withstand this phase

• Higher antioxidant status: +81% total antioxidant capacity in serum⁽⁷⁾

Lower diarrhoea occurence: +30%⁽⁷⁾

• Greater immune response after exposure to a LPS challenge: + 101% IL-10 3 h. after the injection (anti-inflammatory response)(8

& FINISHER

GROWER

Selisseo® significantly increased Se deposition in muscle, with greater bioavailability as compared to Se-yeast (up to **+62%**).

(2013. Jlali et al., J. Animal . Science. 92:182-188).





SELISSEO® IS YOUR BEST INVESTMENT FOR ALL ANIMAL SPECIES

It insures an enhanced stress resistance, better immunity and health, optimal growth and high quality of end-products.



	DESCRIPTION	Seusseo® 2% Se	Selisseo" U. 1% Se	Seusseo® 2% Se Liquia
	Composition	Active substance: Hydroxy-selenomethionine (OH-SeMet) Chemical formula: CH ₃ -Se-(CH ₂) ₂ -CH(OH)-COOH		
1	Carrier	Silica	Silica, Limestone fine	Water
	Appearance	Powder	Powder	Translucent liquid
	Colour	White to light beige	White to light beige	Pale yellow to pale pink
	Selenium Content	Min 2%	Min 0.1%	Min 2%
(HMSeBA	Min 5%	Min 0.25%	Min 5%
5	Recommendations for Use	10-15 g/MT of feed*	200-300 g/MT of feed*	10 mL /MT of feed*
	Packaging	20 kg box (400 kg/pallet)	25 kg bag (1000 kg/pallet)	Cardboard box containing 4x5 liters Jerry Cans or 1000 L IBC

* Varies according to the regulations and country



ADISSEO ASIA PACIFIC PTE LTD | 30 Hill Street, #03-03 | 179 360 Singapore | SINGAPORE Tel.: +65 6543 1121 | www.adisseo.com | feedsolutions.adisseo.com