

**SELISSEO® IS PURE,
CONSISTENT AND STABLE.
NO COMPROMISE, NO GREY AREA.**



SELISSEO

- Provides 100% Pure OH-SeMet.
- Is consistent, batch after batch.
- Can withstand extreme feed processing and storage



DESCRIPTION	Selisseo 2% Se	Selisseo 0.1% Se
Composition	Active substance: Hydroxy-selenomethionine (OH-SeMet) Chemical formula: $\text{CH}_3\text{-Se-(CH}_2\text{)}_2\text{-CH(OH)-COOH}$	
Carrier	Silica	Silica, Limestone
Appearance	Powder	Powder
Color	White to light beige	White to light beige
Selenium Content	Minimum 2.08 %- Maximum 2.24 %	Minimum 0.104 %- Maximum 0.112 %
2-hydroxy-4-methylselenobutanoic acid (HMSeBA)	Minimum 5.20 %	Minimum 0.26 %
Packaging	20 kg box (400 kg/pallet)	25 kg bag (1000 kg/pallet)
The maximum inclusion rate allowed in the U.S. for Se supplementation is 0.3 mg per kg of dry matter.		

**NO COMPROMISE
NO GRAY AREA**

Selisseo's purity makes it the clear choice for selenium supplementation.



Selisseo®

ADISSEO USA, Inc.

4400 North Point Pkwy, Suite 275 | Alpharetta, GA 30022 | USA | Tel. : 800 727 1019 | Fax : 678 339 1600



GET THE MOST OUT OF YOUR ORGANIC SELENIUM SUPPLEMENTATION WITH SELISSEO®

SELISSEO, THE PURE ORGANIC SELENIUM

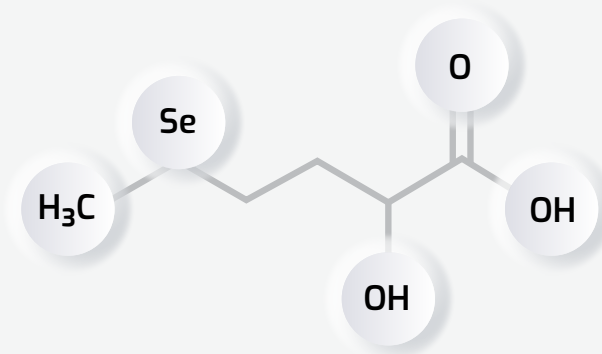
Selsisseo contains 100% hydroxy-selenomethionine (OH-SeMet), a pure and highly-available form of organic selenium. **Selenium (Se) is an essential nutrient for life**, and it has been established that 0.1-0.3 ppm is necessary to support basic functions. Although inorganic Se sources, such as sodium selenite, are commonly used as feed supplements, recent research has confirmed that organic Se sources, and in particular selenomethionine (SeMet) or OH-SeMet, are absorbed much more easily.

On average Selenium Yeast products contain 60% SeMet and the amount of SeMet varies from batch to batch, while Selsisseo consistently provides 100% OH-SeMet.

WHY SELISSEO?

Selsisseo helps maintain higher milk yield and milk quality under challenging conditions (such as parturition and heat stress), while enhancing the cow's antioxidant functions.

HYDROXYSELENOMETHIONINE (OH-SEMET)



THE ANTIOXIDANT FUNCTION OF SELENIUM

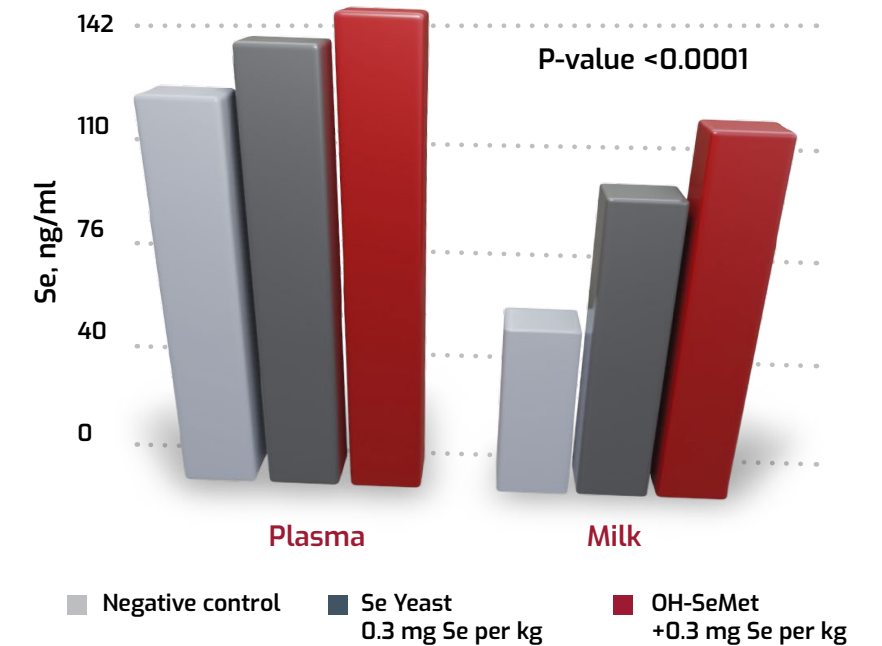
At a cellular level, stress translates into an increased production of free radicals, upsetting the balance between prooxidants and antioxidants and damaging cell structures.

Selenium is a key nutrient in antioxidant defense:

Selenium is biologically present in 2 amino acids:

- Selenomethionine (SeMet), the storage form that replaces regular methionine in proteins.
- Selenocysteine (SeCys), the active form that is only found in the catalytic site of several proteins known as selenoproteins. - Several of these proteins are antioxidant enzymes.

Selsisseo increases selenium content of plasma and milk⁽⁵⁾.



Selsisseo is the most efficient organic Se source.

All the results reported in this document have been extracted from trials in which Selsisseo was compared with other sources of selenium. They should be considered as examples to demonstrate the effect of Selsisseo.

⁽¹⁾ Sun et al., 2017, Journal of Dairy Science. 100(12), 9602-9610

⁽²⁾ Trial conducted in the UK at the University of Reading. 2019

⁽³⁾ Juniper et al., 2019, Journal of Dairy Science, 1102(8), 7000-7010

⁽⁴⁾ Sun et al., 2019, Journal of Dairy Science. 102(1), 311-319

⁽⁵⁾ Whitehouse et al., 2020. Journal of Dairy Science. 103

(Suppl. 1):34 More data are available on request



Improved Dairy Cow Se Status:

- Increased Se storage in both the plasma (+125% vs SS) and milk (+22.8% vs SS) ⁽¹⁾



Lower Somatic Cell Count:

- 0.1 ppm Selsisseo delivered similar results to Selenium Yeast 0.3 ppm ⁽⁵⁾
- 0.3 ppm Selsisseo (recommended usage) provided a 64% SCC reduction compared to Selenium Yeast ⁽⁵⁾



Lower drop in milk yield:

- When under heat stress conditions: +9.3% vs SS ⁽⁴⁾



Oxidative stress bio-markers:

- Higher activity of glutathione peroxidase (+46%) and total antioxidant capacity (+19.6% vs SS) ⁽¹⁾
- Improved total antioxidant capacity under heat stress (+20% vs SS) ⁽⁴⁾
- Lower plasma H₂O₂ (-18.5% vs SS) ⁽⁴⁾
- Lower plasma nitric oxide (-22.9% vs SS)