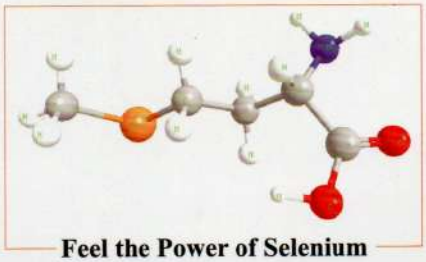
Sinyiml新一美

Make Valuable Feed Additives!

SePower™

Selenomethionine



Feel the Power of Selenium

The Pure, Reliable and 100% Efficient Source of Organic Selenium

Sichuan Sinyiml Biotechnology Co., Ltd.

About Sichuan Sinyiml Biotechnology Co., Ltd.

Sichuan Sinyiml Biotechnology Co., Ltd. (**SINYIML**) is an innovative and high technology enterprise who focuses on animal micronutrients.

SINYIML is the main manufacturer for Organic Chromium(chromium picolinate), Organic Selenium(selenomethionine), Organic Trace Minerals(amino acid chelates) and Daidzein in China.

SePower™ selenomethionine is a new type of organic selenium. **SINYIML** is the first and only selenomethionine manufacturer in China.



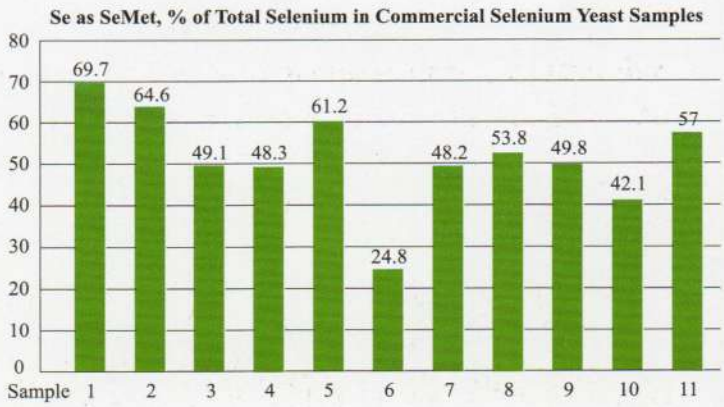
Selenium

Selenium (Se) is an essential trace element for human and animal health. Selenium sources added to the animal diet can be categorized as organic or inorganic.

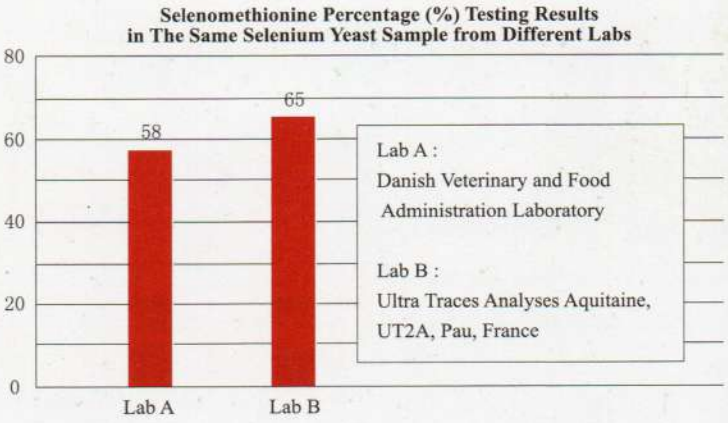
Organic selenium,specifically selenomethionine(Se-Met),has been proven to be superior in numerous trials.

Selenium Yeast and Selenometionine

In selenium yeast, the main and effective ingredient is selenomethionine, but selenomethionine concentration is greatly variable (24.8%~69.7%). Remaining Se-compounds are extremely with low biological and nutritional function.

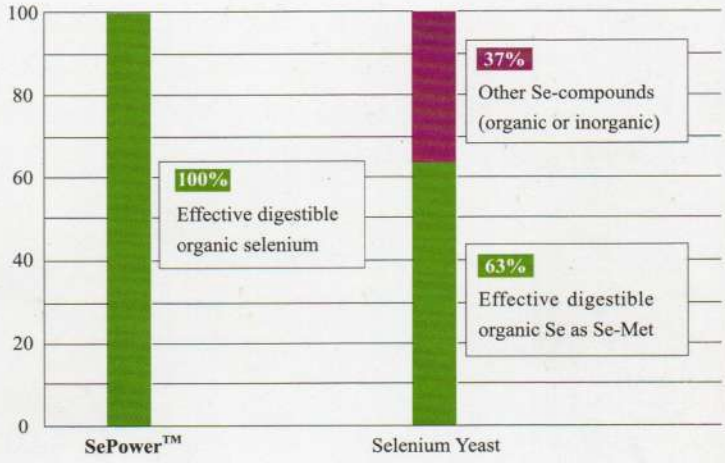


Besides, test method of selenomethionine in selenium yeast is very complicated. Even the same selenium yeast sample tested in different labs may greatly vary in selenometionine concentration, which leads to uncertainty of selenium yeast application in animal nutrition.



SePower™ is 100% Se-Met which is a clearly defined molecule that ensures high purity and same amount of active ingredient in every batch produced.

Based on fully controlled chemical synthesis in **SePower™**,more than 98% Se is in the form of Se-Met,and considered 100% digestible.

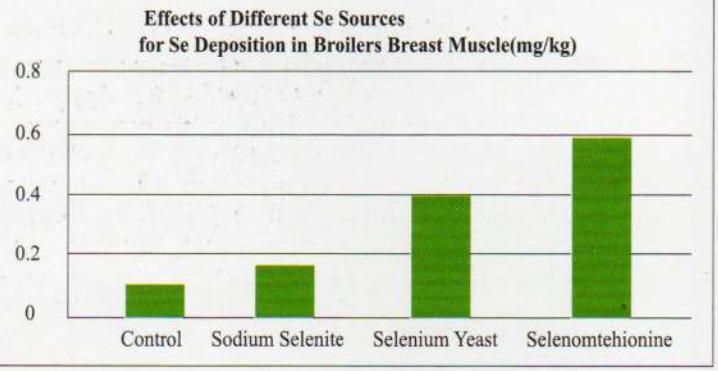


SePower™ Selenomethionine
High-efficiency, Stable, Definite Organic Selenium Source
Higher Bioavailability of Selenium for Animals

01 Selenomethionine provides higher bioavailability for Se deposition than Se-yeast and inorganic Se products

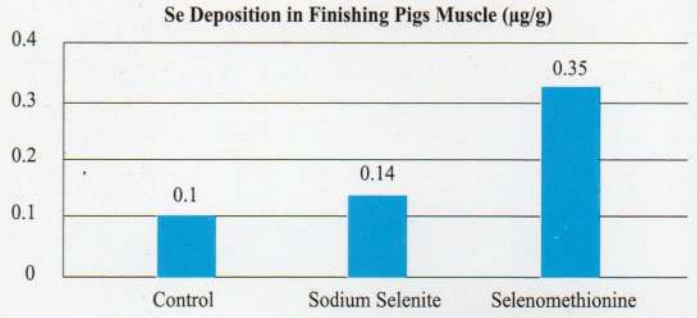
In broiler chickens

Selenomethionine shows321.4% and 51.3% higher Se deposition in breast muscle than sodium selenite and selenium yeast respectively, supplemental the same Se level 0.3mg/kg from sodium selenite, selenium yeast and selenomethionine(Guo Junrui et al., 2014).



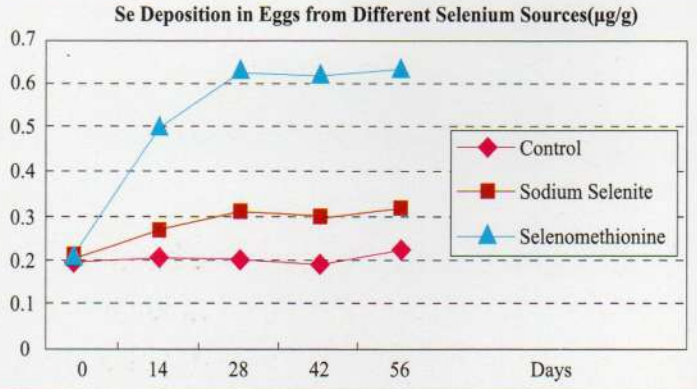
In finishing pigs

Supplement the same Se level(0.3mg/kg) from different selenium forms, selenomethionine significantly increase Se deposition in muscle with greater bioavailability (250%)as compared to sodium selenite(Xiuan Zhan et al., 2007).



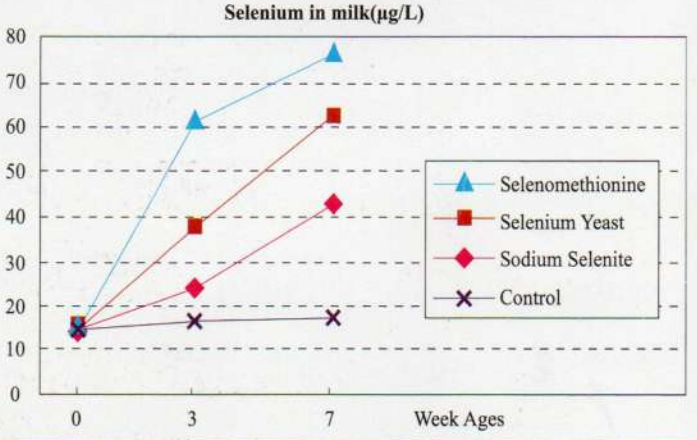
In layers

In eggs, selenomethionine shows extremely high Se deposition. With supplement the same Se level(0.4mg/kg), Se deposition from selenomethionine form is two times higher(or more) than from sodium selenite(Wang Xinghua et al., 2012).



In dairy cattle

Se deposition from selenomethionine is significantly higher than from sodium selenite and selenium yeast, 20%~30% higher than from selenium yeast(Vandaele et al, 2014)



02 Selenomethionine improves reproduction of sows,broiler breeders,and efficiently transfer of selenium to offspring.

In broiler breeders

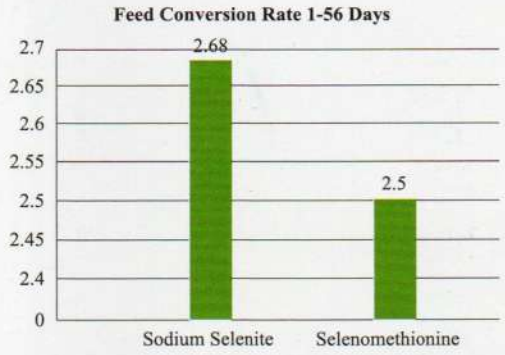
Supplement Se level 0.15 mg/kg from selenomethionine, as compared to Se level 0.3 mg/kg from sodium selenite and selenium yeast, which significantly improves broilers production performance. (Yuan Dong et al., 2011)

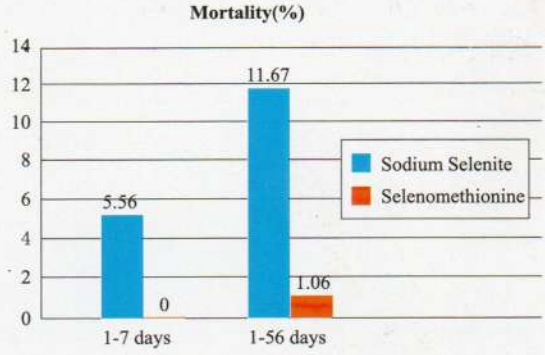
Effects of Selenium Sources and Levels on Reproductive Performance of Broiler Breeders

	Se level(mg/kg)	Egg production(%)	Fertility(%)	Hatchability(%)
Sodium Selenite	0.30	56.67±2.740^{ab}	87.61±3.119	85.15±1.223^{b}
Selenium Yeast	0.30	56.28±2.860^{ab}	90.45±1.093	86.80±1.093^{ab}
Selenomethionine	0.15	61.27±1.923^{a}	91.69±1.445	89.69±1.271^{a}

Means within a column with different lowercase letters are different at P<0.05. * As a percentage of all incubated eggs b As a percentage of fertile eggs

Supplement Se level 0.3mg/kg from selenomethionine to Lingnan broiler breeders, as compared to sodium selenite, selenomethionine greatly enhance offspring immunity, reduce mortality, significantly improve feed conversion rate of offspring broilers (Zhang Xiwen et al., 2010)





In sow

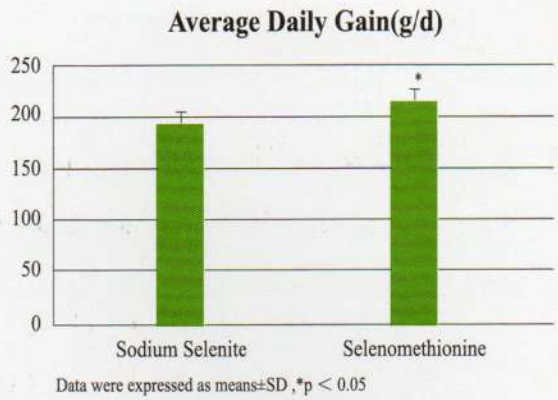
Two groups sows received the same basal gestation and lactation diets, supplemented with 0.3 mg Se/kg sodium selenite and selenomethionine respectively.Compared with the sodium selenite group, maternal selenomethionine intake significantly ($p<0.05$) increased the Se content in the organs of its offspring(Xiuan Zhan et al., 2010).

Effect of Different Maternal Se Sources Intake on Se Concentration in Serum and Organs of its Offspring

	Sodium selenite	Selenomethionine
Serum(μg/ml)	0.49±0.03	0.62±0.04**
Liver(μg/g)	0.46±0.03	0.70±0.03**
Kidney(μg/g)	2.33±0.05	2.49±0.05**
Pancreas(μg/g)	0.35±0.02	0.54±0.03**
Muscle(μg/g)	0.17±0.01	0.23±0.02**
Thymus(μg/g)	0.15±0.01	0.16±0.01*
Thyroid gland(μg/g)	0.13±0.01	0.15±0.01*

The Se sources were added to the diet at 0.3mg Se/kg at the expense of maize. Data were expressed as means±SD(n=6) *p < 0.05 ; **p < 0.01

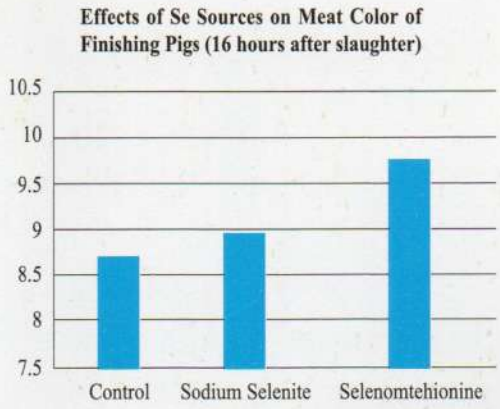
Compared with the sodium selenite group, maternal selenomethionine intake significantly ($p<0.05$) increased the average weight gain of piglets from birth to weaning. The magnitude of increase was 12.20%.

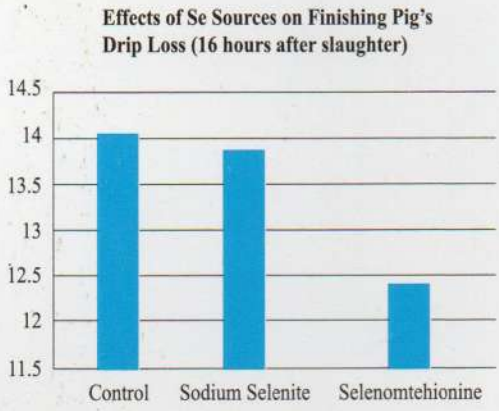


03 Selenomethionine improves the stability of the red meat color and decreases drip loss of muscles during storage by increasing glutathione peroxidase and reducing lipid and protein oxidation.

In finishing pigs

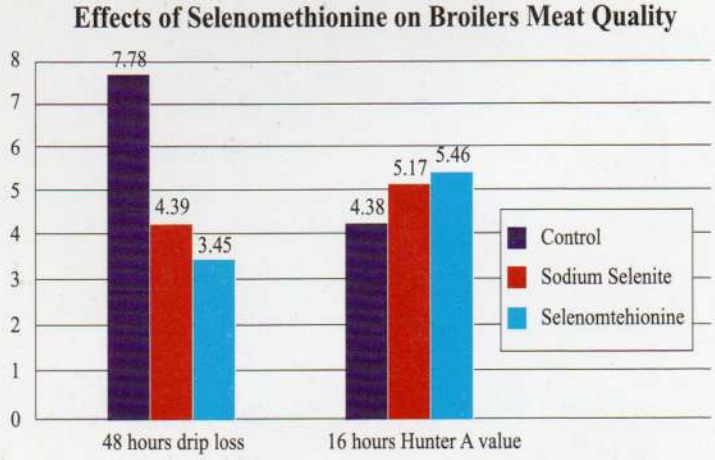
Supplement Se 0.3 mg/kg from sodium selenite and selenomethionine respectively, selenomethionine can significantly improve finishing pigs meat quality, increase meat color and reduce drip loss (Xiuan Zhan et al., 2007).





In broliers

Supplement Se 0.15 mg/kg from sodium selenite and selenomethionine respectively , selenomethionine significantly improve broilers meat color and reduce drip loss, which the effect is much better than sodium selenite(Y.X. Wang et al., 2011).



Advantages

In **SePower™**, selenium in the form of effective digestible selenomethionine,which bioavailability is 300~500% higher than inorganic Se (sodium selenite).

In **SePower™**, all selenium is bound to L-methionine (selenomethionine). In selenium yeast, only part of selenium is bound to methionine. Commercial available selenium yeast for animal nutrition typically contain 25-70% selenomethionine and variable.

In **SePower™**, selenomethionine is a clearly defined molecule and can be easily analyzed by general facilities and methods(HPLC).



	Guaranteed Analysis Value	Dosage
SePower™ 2000	selenomethionine ≥ 0.5% Se ≥ 0.2%	50~100g/MT of feed
SePower™ 5000	selenomethionine ≥ 1.25% Se ≥ 0.5%	20~40g/MT of feed

SePower™ is a pure souce of organic selenium, which contains 100% selenomethionine to ensure a highly safe, pure and effective organic selenium supplement for all animal species.

SePower™

Selenomethionine

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Make Valuable Feed Additives!

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