

The Scent of Nature



Sun Drops

SINTOFARM

Oregano etheric oil:

Essential oils are aromatic substances extracted through steam distillation from different plants.

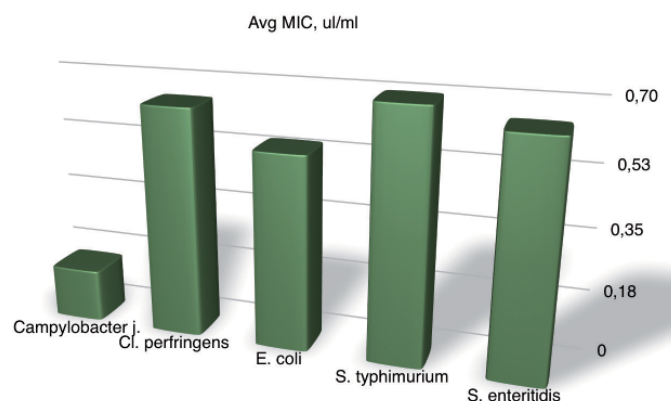
Why “natural” is better than “natural-identical”

- ▶ There is an increasing interest in the properties of essential oils in animal nutrition.
- ▶ There is a different co-activity of those compounds that couple with the flavouring ones.
- ▶ This mode of action is very close to the one of ionophore antibiotics that are used as AGP as well as anticoccidials worldwide. This is typical of only oregano essential oil: not of others (Baricco G. et al ESVCN).
- ▶ Economic competition has brought to the use of “natural-identical” products: chemically produced substances, that would have to be identical to the natural ones, in flavouring and co-activities.
- ▶ Nature cannot be copied: in fact those products never have the same potency of all-natural ones.
- ▶ So, Sintofarm’s point of view is that price is not the field of comparison: efficacy and safety are.

Mechanism of action, compatibilities

- ▶ Some etheric oils extracted from aromatic plants, and namely from selected strains of *Origanum vulgare* have shown antibacterial properties based on the impair of the bacterial cell membrane activity, by changing permeability to cations, like H^+ and K^+ .
- ▶ Oregano oil seems to have a direct bactericidal action.
- ▶ The same activity has been observed in infected mature enterocytes, representing the upper layer of the intestinal mucosa: this explains the activity of oregano oil also on obligatory intracellular microorganisms.
- ▶ The main active ingredients of oregano essential oils are not absorbed in the gut, neither metabolized during the intestinal flow: they are active in the same way in the small as in the large intestine.
- ▶ Oregano essential oil has a strong antioxidant activity, thus preventing from degradation vitamins and other sensible products, and is perfectly compatible with organic and inorganic acids.
- ▶ Oregano essential oil is stable up to 85 °C: for higher temperatures, post spraying devices are recommended.

Average MIC (synopsis of various experiments)



Sun Drops Liquid

- ▶ Stable, liquid emulsion containing 5% of pure etheric oregano oil.
- ▶ It stimulates appetite and helps in solving specific enteric disorders in swine, poultry, rabbit and calves
- ▶ Dosage ranges from 0,03 to 0,1% in the drinking water.

Sun Drops powder

- ▶ Premix containing 5% of pure etheric oregano oil on appropriate silica and vegetable and mineral carrier.
- ▶ It stimulates appetite and helps in solving specific enteric disorders in swine, poultry, rabbit and calves.
- ▶ Dosage ranges from 0,25 to 1kg per metric ton of feedingstuff.

Etheric oregano oil composition:

Carvacrol 75-84%; Thymol 0.8-4%; γ -Terpinene 3-5%; p-Cymene 3-6%

General applications

Improves the gastro-intestinal health condition at the following suggested dosages:



Swine

	Lactating sows	Creep feed	15 days after weaning	Up to 25 kg b.w.	From 25 to 50 kg b.w.
Sun Drops Powder	0,25 kg/t	1 kg/t	1 kg/t	0,5 kg/t	0,30 kg/t
Sun Drops Liquid		0,05% in drinking water	0,05% in drinking water	0,03% in drinking water	0,03% in drinking water



Poultry

	Broilers	Laying hens	Ducks and quails	Turkeys organic farms
Sun Drops Powder	0,3 kg/t for all period	0,3 kg/t for all prod. period	0,3 kg/t for all period	0,5 kg/t up to week 12
Sun Drops Liquid	0,03% in drinking water in week 1 and 3	0,03% in drinking water in case of dirty eggs	0,03% in drinking water when needed	0,03% in drinking water when needed



Ruminants

	Beef cattle	Sheep/goat
Sun Drops Powder	10 - 20 mg/kg b.w. (0.5 - 1 mg a.p./kg b.w.)	20 - 40 mg/kg b.w. (1 - 2 mg a.p./kg b.w.)
Sun Drops Liquid	10 -20 ml/kg b.w. (0.5 - 1 mg a.p./kg b.w.)	20 - 40 ml/kg b.w. (1 - 2 mg a.p./kg b.w.)



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