



**Zoomaria S.r.l.**

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# Megamentol

Liquid Premix of Feed Additives / Oral solution

Bronchodilator for Oral Administration

## COMPOSITION: Each 1 litre contains

Mint arvensis oil (Menthol), Eucalyptus globulus oil (Eucalyptol), Thymus vulgaris oil (Thymol), Vitamin E Tocopheryl Acetate, Propylene glycol (1,2 propanediol), Glyceryl polyethylene glycol ricinoleate, Distilled water up to 1 liter.

## Indication:

Natural & Safe mixture of essential oils help to relief respiratory distresses  
Eucalyptus, Mint and Thyme oils are etheric essential oils obtained from aromatic herbs. They are known to have antibacterial, insect repellent, flavourings and aromatic effects  
Menthol obtained from mint oil has anti-pruritic, decongestant and cooling effect  
Natural anti-inflammatory and expectorant  
Relief nasal congestion, sinusitis, bronchitis and bronchial asthma  
Natural antioxidant, antibacterial and antivirus  
Helps to reduce respiratory symptoms, especially with post vaccination reactions. Spraying helps to improve animals' surroundings and to reduce the health risks when they are housed in a crowded manner. Better homogeneity and performance parameters.  
Boost immunity to overcome respiratory signs associated with bacterial and viral infection as well as overcrowding  
Works as bronchodilator that help the ease of respiration during periods of severe stress  
Helps in treatment of many viral disease that affect the respiratory system like AI, ND, IB and I LT  
Stimulates the appetite and increase feed intake consequently improve general performance  
Reduces mortality and morbidity during infection by respiratory disease  
Helps in treatment of many bacterial disease that affect respiratory system like E. coli, Mycoplasma and CRD  
Relieving respiratory symptoms related to infections  
Reducing respiratory reactions after vaccinations  
Giving extra comfort to livestock in hot weather  
Relieving respiration when ammonia levels are elevated in farms (e.g., crowded housing)  
Reducing infection pressure with its antibacterial effect

## Mode of action:

Eucalyptus oil has clear thin appearance that provide a fresh, cooling and soothing application with soft earthy aroma  
Peppermint and eucalyptus have immune-stimulatory effect on cell mediated and/or humeral immunity in chicken vaccinated against ND and AI as it gives higher HI titers when birds treated with it  
Enhance phagocytic cell activity  
It was concluded that eucalyptus and peppermint oils proved to be able to implement innate-cell mediated, humoral immune response and have a potent immunomodulatory effect in chickens

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Thymol has antimicrobial activity because of its phenolic structure, and has shown antibacterial activity against bacterial strains including *Aeromonas hydrophila* and *Staphylococcus aureus*. In addition, Thymol demonstrates confidential post antibacterial effect against some microorganisms. This antibacterial activity is caused by inhibiting growth and lactate production, and by decreasing cellular glucose uptake.

General tonic, increase cardiac activity due to its eucalyptus content.

**Target animal species:** poultry and farm animals, livestock.

**Dosage and Administration:** For oral administration via drinking water

General dosage: 1 ml / 4-5 Liters DW for 5-7 days

**Treatment and dosage:**

General dosage 1 ml per 5 liters drinking water for 3-5 days

During viral and bacterial infection increase the dose to be 1 ml per litre during period of infection

During AI, IB, ND and ILT infection 1ml per litre drinking water

The product can be used as fine spray in the farm and poultry houses in dose of 20 ml /10 litre water - for 1000 m<sup>3</sup>

In case of EDS infection in layers farms used in dose of 1 ml per litre of drinking water

**Preventive programme:**

From 0-7 day old 1 ml per 4 liters water

After vaccination 1 ml per 4 liters water for 2 days

From 20-23 day old 1 ml per 2 liters water

From 30-35-day 1 ml per 1 litre water

For layer and breeder chickens used for 48 hours every 2 weeks and after vaccination regularly in dose 1 ml per 2-4 liters water

Used in dose of 1 ml per 4 liters water during periods of stress including overcrowding and heat stress periods

**Packing:** Bottles of 40 x 250 ml per carton box, Bottles of 18 x 500 ml per carton box, Bottles of 12 x 1 litre per carton box; Can of 3 x 5 litre per carton box; Can of 10, 20 and 25 liters

**Storage:** Keep tightly sealed, dry, cool and protected from direct sunlight. Opened packages should be used promptly.

**Origin:** Italy, European Union

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