

# Anti-inflammatory Roll On



This all natural roll on provides relief from muscle and joint pain as well as calms inflammation. It consists of eucalyptus oil, spearmint, myrrh, amongst others.

## MAIN INGREDIENTS AND THEIR ROLES:

*Eucalyptus globulus* - Has anti-inflammatory, antiseptic, antispasmodic properties and reduces swelling and pain.

*Commiphora myrrha* - Has natural analgesic and antibacterial properties and helps to alleviate joint pain and stiffness.

*Matricaria chamomilla* - Has anti-inflammatory and stress-relieving properties.

*Gaultheria procumbens* - Its pain-relieving properties can help with muscular or skeletal problems, methyl salicylate - an active constituent of wintergreen has analgesic property.

*Lavandula officinalis* - Reduces inflammation, pain, stress, and anxiety.

## KEY INGREDIENTS

*Spearmint oil, Eucalyptus oil, Peppermint oil, Camphor, Clove oil, Hempseed oil, Capsicum oleoresin oil, Lavender oil, Rosemary oil, Myrrh oil, Ginger oil, Orange oil, Chamomile oil, Wintergreen oil, Sodium benzoate, Carbomer and Demineralized water.*

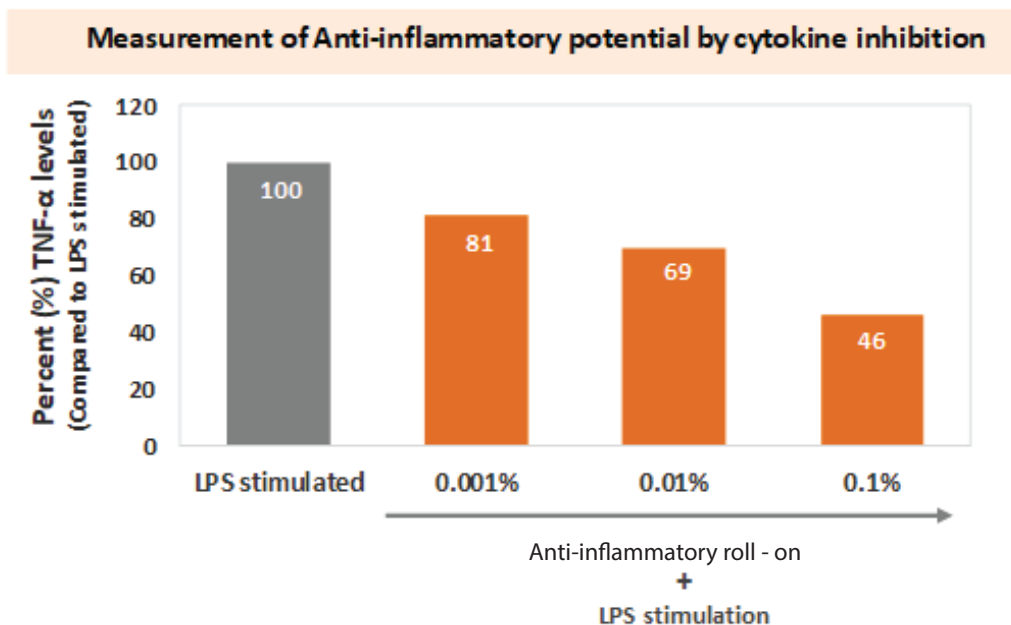
**DIRECTIONS OF USE** - Rub gently on the affected area.

## EFFICACY DATA – IN-VITRO

Inflammation plays a major role in muscle and joint pain. Excessive levels of inflammatory cytokines such as TNF- $\alpha$  contribute to the severity of inflammation and pain. Inhibition of stimulation induced cytokine levels reflects the anti-inflammatory potential.

### Efficacy Claims

- Anti-inflammatory action
- Soothes inflammation
- Relieves muscle and joint pain



Results obtained in vitro. Data demonstrates % TNF- $\alpha$  levels compared to LPS stimulated group normalised to 100%.

### Results

- Anti-inflammatory roll - on inhibits LPS-stimulated levels of TNF- $\alpha$  in immune cells (macrophages, RAW264.7) by a maximum of 54% as compared to LPS-stimulated group.

These results substantiate the anti-inflammatory properties of Anti-inflammatory Roll-on.