

Intelligent Remedies, Inc.

P.O. Box 448, Puunene, HI 96784

www.intelligentremedies.com



Product Information Sheet

Curecumin™ Organic Nasal Spray (*Curcuma longa*)



Turmeric, an anti-inflammatory, is known for a broad spectrum of health benefits. The curcumin in turmeric has antioxidant, antiseptic, antifungal and anti-inflammatory properties. Curecumin Organic Nasal Spray is noted for its high bio-availability, due to employing hydrodistillation protocols, using long-duration heat and water extraction.

To increase the bioavailability and also direct nose-to-brain drug transport, nasal delivery of curcumin has been used. In a study, the pharmacokinetics results showed that the absolute bioavailability of curcumin in the microemulsion-based *in situ* ion-sensitive gelling system was 55.82% by intranasal administration. And the distribution of curcumin in brain versus blood following intranasal administration was higher than that following intravenous administration [49]. Another study also showed that the drug-targeting efficiencies of the curcumin in the cerebrum, cerebellum, hippocampus and olfactory bulb after intranasal administration of the curcumin hydrogel were 1.82, 2.05, 2.07, and 1.51 times higher than intravenous administration of the curcumin solution injection, respectively, indicating that the hydrogel and intranasal administration significantly increased the distribution of curcumin into the rat brain tissue.

In another study intranasal curcumin has been detected in plasma of mice after 15 minutes to 3 hours at pharmacological dose (5 mg/kg), which has shown antiasthmatic potential by inhibiting bronchoconstriction and inflammatory cell in the lungs. Thus, this study indicates that intranasal treatment of curcumin prevents airway inflammations and broncho-constrictions in asthma.

Turmeric, in a dried powdered form has a relatively low absorption/bioavailability. In a very recent study, (Yang et al) showed that administration of 10 mg/kg of curcumin results in only 0.36 µg/ml of curcumin in the blood serum. However, research has shown, "We report here that the water solubility of curcumin could be increased from 0.6 _ g/ml to 7.4 _ g/ml (12-fold increase) by the use of heat." Improving the Solubility and Pharmacological Efficacy of Curcumin by Heat Treatment, Biji T. Kurien, Anil Singh, Hiroyuki Matsumoto, and R. Hal Scofield1, ASSAY and Drug Development Technologies Volume 5.

- Turmeric relieves pain. The anti-inflammatory properties of turmeric can speed up the body's healing process and relieve pain. Conditions such as arthritis can be dealt with by consuming turmeric. Chronic and nerve-related pains can also be treated by using turmeric.
 - Turmeric reduces inflammation. For years, Ayurveda has recommended turmeric for treating inflammation. As mentioned above, the ingredients have anti-inflammatory properties. Turmeric has often been used to treat and even prevent arthritis.
 - Turmeric manages diabetes. Diabetes is a condition which can cause possible damage to blood vessels. Researchers say that curcumin reduces the oxidative stress that damages blood vessels.
 - Turmeric controls obesity. People on weight loss expedition can use turmeric to enhance their process of burning fat and losing weight. This is possible because curcumin interacts with the body's pancreatic, fat, liver, and immune system cells.
-
- **Highly bio-available due to heat and alcohol reflux extraction**
 - Made from the extraction of **fresh Maui, Hawaii turmeric rhizome**.
 - **Organic**, Non-GMO, Gluten free
 - Extracted with **Maui-grown organic sugarcane alcohol** and deep ocean mineral water.
 - Rich in curcuminoids, the active ingredient.
 - Antioxidant, antiseptic, and antifungal.