

THE BODY DOCTOR.

DEMETSTM

The Body Doctor® has developed a proprietary microemulsion technology named as DEMETSTM. The patented (pending) DEMETSTM technology offers unique characteristics that can be directly utilised in eye care.

Clinical performance and safety

The microemulsion has been designed to counteract all three factors that maintain the dry eye condition on the ocular surface. The results of the clinical trial conducted on DEMETSTM microemulsion eye drops on patients with moderate or severe dry eye prove significant improvements in 1) tear film stability, 2) tear osmolarity, and 3) ocular surface inflammatory damage. These clinical effects lead the way to significantly decreased dry eye symptoms from severe to mild/asymptomatic levels within 10–30 days of frequent use. Tolerability is excellent with no side-effects known to date.

Surface tension

One of the absolutely unique characteristics resulting from the optimization process is that the surface tension of the microemulsion solution matches exactly the natural surface tension of the tear fluid. A certain low level of surface tension is mandatory for the tear film to spread rapidly and evenly onto the eye after blinking of the eyelids. Low surface tension also increases the stability of the tear film on the ocular surface. In dry eye, tear fluid surface tension gets too high, which results in poor spreading and poor stability of the tear film. DEMETSTM microemulsion brings the surface tension back to the healthy level and restores its rapid spreading and stability.

Unsaturated fatty acid ratio

The omega-6/omega-3 ratio of unsaturated fatty acids in sacha inchi seed oil corresponds to the natural omega-6/omega-3 ratio of lipids in the healthy tear fluid.

Advantages as eye drops

The volume of one drop of DEMETSTM microemulsion instilled from the eye drop bottle is about 30 µl. This is the maximum volume of liquid the human eye can hold on its surface.

Optical clarity

By careful determination of the most optimal molar ratio of sacha inchi seed oil, emulsifiers and glycerol, the resulting microemulsion formulation is optically clear and colourless. The solution will never blur the vision.

Formulation stability

Optimization of the molar quantities of the ingredients also results in remarkable stability. All products with DEMETSTM technology are guaranteed to remain usable for two years after manufacture and can be used for six months after the first opening of the package. There is no need to shake the bottle before use at any time.

Usability with contact lenses

DEMETSTM microemulsion products can be used during contact lens wear. The lenses need not be removed from the eyes.

Suitability for multi-ingredient formulations

Any of the various water-soluble active ingredients and excipients can be mixed with the microemulsion without compromising its characteristics.

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