1. INCI Ingredients List.

Caprylic/Capric Triglyceride, Lecithin, Mosla Chinensis Flower/Leaf/Stem Extract, Ampelopsis Grossedentata Leaf Extract, Tribulus Terrestris Fruit Extract, Myristica Fragrans (Nutmeg) Kernel Extract.

2. Product Information.

Itch-End was made by combining the TCM principle of "holism, syndrome differentiation and overall treatment", to analyze the mechanism of pruritus and redness caused by mosquito bite. Nutri-Woods put forward the concept of "To stop itch; it is required to detoxify first; it has to be safe and requires to be able to repair". Also, Phytosome technology has been used in the preparation process of Itch-End.

The Phytosome®s are advanced forms of herbal products that are better absorbed, utilized, and as a result, produce better results than conventional herbal extracts. The phospholipids can wrap the related groups with irritation and adverse reactions so that the irritation of active substances can further be reduced if there is any. Furthermore, the phospholipids were used as a matrix to delay the release of active substances and prolong the action time. Therefore, Itch-End is a very effective and safe functional plant extract.

Itch-End has the following characteristics:

1) rapidly ends itching;
2) detumescence;
3) extremely mild and safe;
4) with no preservatives, fragrances and flavours added.

3. Symptom ［症］.

Mosquito bite dermatitis is one of the common skin problems in summer. After being bitten by a mosquito, in a minor case, it appears as a red dot. For a more severe instance, it appears as a swollen red lump; and accompanied by various degrees of itch and even with a tingling sensation. After repeated scratching, it is easy to cause chapped skin, infection; improper treatment will also leave long-lasting scars. It is also an easy way to spread diseases and can be very disturbing to our lives.

4. Theory ［理］.

From the TCM point of view, pruritus, redness and swelling on the skin after a mosquito bite, will cause a slight breakage of the skin. An invasion of toxic evil into the body via the open wound and resulting in local Qi and Blood stagnation. Prolonged blood stasis turns into heat and heat toxin accumulation.

To alleviate the itching caused by this mosquito bite and the discomfort of redness and swelling, we should first remove the toxic evil of the muscle surface. By clearing away the heat and detoxification, they eliminate the irritations caused by the external evil to the skin. All symptoms such as itching and detumescence (swelling) will be relieved with calming.
5. Efficacy.

5.1 Antipruritic effect.

Fig. 1 Statistics of antipruritic time after application of 10% Itch-End.

5.2 Detumescence effect.

Fig. 2 Statistics of detumescence time after application of 10% Itch-End.

5.3 Sensory and safety evaluation.

Fig. 3 Sensory and safety evaluation of 10% Itch-End.

5.4 Inhibit the release of inflammatory cytokines.

Fig. 4 Inhibitory effect of Irriguard on IL-1α release from keratinocytes.

Fig. 5 Inhibitory effect of Irriguard on IL-6 release from keratinocytes.

Fig. 6 Inhibitory effect of Irriguard on TNF-α release from keratinocytes.

Fig. 7 Inhibitory effect of Irriguard on PGE2 release from keratinocytes.

Note: Detail information is available from the respective product manuals.

Disclaimer: For all products produced by Nutri-Woods Biotech (Beijing) Co. Ltd. is printed on the SDS and product manual of the particular products.