1. INCI Ingredients List.


2. Product Information.

Irriguard is a functional plant extract with a soothing effect for sensitive skin. It was derived from the inspiration of the traditional medicine “Yupingfeng (The Jade Partition) Powder”, and combines the principles of “holism, syndrome differentiation diagnosis and overall treatment” of TCM, through four ways of “strengthening, dispelling, clearing and calming” to solve the problems affecting sensitive skin.

Irriguard has the following characteristics:

1) Immediate relief of symptoms: relieving itching, removing redness, reduce swelling, inhibit the release of inflammatory cytokines;
2) Long-term consolidation of barrier: repair the skin barrier and reduce sensitive symptoms in five different dimensions;
3) Extremely mild to the skin, with no chemical additives.

3. Symptom [症].

Sensitive skin is not explicitly classified in the medical records of traditional Chinese medicine. However, there are records of similar symptoms, such as Wu Qian 胡謙 (1616-1912) described in “Yi Zong Jin Jian – The key points in external diseases” 《醫宗金鑲·外科心法要诀》that this syndrome shows on the face.” The first appearance is puffy, itchy, skin dryness then forms white scales. The “External disease syndrome Treatment” 《外科证治全书》by Xu Ke Chang 徐光啟 (1616-1912) recorded: “the appearance of swollen eyes and face, itching skin, with desquamation, the itch will get more serious and even up to an unbearable state, sometimes it may hurt like pinching by needles.”

4. Theory [理].

From the point of view of TCM, skin sensitivity is mostly due to insufficient body endowment or long-term stimulation by external factors, such as UV light, cosmetics, medical beauty treatment programs etc. Therefore, resulting in weakening of skin barrier, easily to be attacked by “wind, dampness, heat, poison” and other external evils.

The following factors will evolve into sensitive skin:

1) Weakening of skin barrier;
2) Excess of the wind evils;
3) Heat toxin accumulation;
4) Evil disturbing the skin.

Based on the differential diagnostic analysis of TCM on the symptoms that lead to skin sensitivity, we treat the problem with "strengthening the resistance and expelling the evil" in TCM principle. We put forward four ways to comprehensively solve the sensitive skin problems: “strengthening the barrier, dispelling wind and dispersing the evil, clearing the heat and detoxifying, and calming the skin”.

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<tbody>
<tr>
<td>Strengthening of skin barrier</td>
<td>Chief 黄芪</td>
<td>Astragalus Membranaceus (Membranous Milkvetch Root)</td>
<td>老黄芪</td>
<td>Improve the sensitive defense function of the body</td>
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<td>Dispelling wind and dispersing evil</td>
<td>Deputy 龙胆</td>
<td>Saposhnikovia Divaricata (Divaricate Saposhnikovia)和 Gastodia Elata (Tall Gastrodice)</td>
<td>龙胆草</td>
<td>Relieve itching</td>
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<td>Clearing the heat and detoxifying</td>
<td>Assistent 菊花</td>
<td>Calendula Officinalis (Calenda)</td>
<td>菊花</td>
<td>Destrp skin redness and relieve swelling</td>
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<td>Calming and tranquilizing the skin</td>
<td>Envoy 合欢花</td>
<td>Albizia Julibrissin (Silktree Albizia Flower)</td>
<td>合欢花</td>
<td>Sooth the mind</td>
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5. Efficacy.

5.1 Inhibit the release of inflammatory cytokines.

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

Fig. 2 Inhibitory effect of Iriguard on IL-6 release from keratinocytes.

Fig. 3 Inhibitory effect of Iriguard on TNF-α release from keratinocytes.

Fig. 4 Inhibitory effect of Iriguard on PGE2 release from keratinocytes.

5.2 Calm the stinging caused by lactic acid.

Fig. 5 Alleviating effect of Iriguard on lactic acid stinging pain.

5.3 Soothe the symptoms of sensitive skin in five dimensions.

Fig. 6 Soothing effect of Iriguard on sensitive skin.

5.4 Repair of epidermis of 3D skin model.

Fig. 7 3D skin model sliced diagram.

5.5 Promote the expression of skin barrier-related proteins of 3D skin model.

Statistically significant vs blank control group, (##) P<0.01; statistically significant vs damaged model group, (*) P<0.05, (**) P<0.01, n=3.

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

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