PRODUCT STANDARD

PRODUCT NAME: CISTANCHE TUBULOSA EXTRACT-PC25 (COSMETIC)

This product is extracted from Cistanche tubulosa with aqueous ethanol. It guarantees minimum of 25.0 % echinacoside, 9.0 % acteoside and 50.0 % phenylethanoid glycosides. This product is water-soluble.

**Appearance**
Brown to light brown powder with light characteristic odor.

**Echinacoside**
Min. 25.0 % (HPLC)

**Acteoside**
Min. 9.0 % (HPLC)

**Phenylethanoid glycosides**
Min. 50.0 % (UV)

**Loss on Drying**
Max. 10.0 % (1g, 105°C, 2 hr)

**Purity Test**

(1) **Heavy Metals (as Pb)**
Max. 10 ppm (The Second Method of The Japanese Standards of Quasi-Drug Ingredients)

(2) **Arsenic (as As₂O₃)**
Max. 1 ppm (The Third Method of The Japanese Standards of Quasi-Drug Ingredients)

**Standard Plate Counts**
Max. 1×10³ cfu/g (Analysis for Hygienic Chemists)

**Moulds and Yeasts**
Max. 1×10² cfu/g (Analysis for Hygienic Chemists)

**Coliforms**
Negative (Analysis for Hygienic Chemists)

**Composition**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Content</th>
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</thead>
<tbody>
<tr>
<td>Cistanche Tubulosa Root Extract</td>
<td>100 %</td>
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**Expiry date**
2 years from date of manufacturing.

**Storage**
Store it in a cool, dry, ventilated area with desiccant. Keep it away from high temperature and sunlight, and store it in a closed container.

<table>
<thead>
<tr>
<th>Established Date</th>
<th>April 25, 2007</th>
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<tbody>
<tr>
<td>Revised Date</td>
<td>July 27, 2018</td>
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<tr>
<td>Specification No.</td>
<td>N-827EN</td>
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