GENERAL INFORMATION

Select Botanical, SL manufactures highest quality extracts following strictest Quality Management System in compliance with the “Good Manufacturing Practices” requirements, carrying on the last manufacturing steps in classified areas (Clean Rooms).
Select Botanical, SL assures the traceability with rigorous analysis form raw material to finished product.

Definition:

20β-Carboxy-11-oxo-30-norolean-12-en-3β-y1-2-O-β-D-glucopyranosyl-α-D-glucopyranosiduronic acid dipotassium salt.

PRODUCT PROPERTIES

Solubility: Soluble in water, glycerin, propylene glycol and hydroalcoholic mixtures.
Not soluble in butylene glycol and polyethylene glycols of low molecular weight.
Not soluble in oily phases (Caprylic/Capric triglycerides).

SPECIFICATIONS/ TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Description</th>
<th>White or almost white powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance of solution</td>
<td>Clear</td>
</tr>
<tr>
<td>pH (1 % in water)</td>
<td>5-6</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>≤ 5.0% w/w</td>
</tr>
<tr>
<td>Residue of ignition</td>
<td>≤ 21.0 ppm</td>
</tr>
<tr>
<td>Heavy metals</td>
<td>≤ 10 ppm</td>
</tr>
<tr>
<td>Assay (UV/Vis)</td>
<td>≥ 99.0 %</td>
</tr>
</tbody>
</table>

INFORMATION ABOUT MANUFACTURING PROCESS

Dipotassium Glycyrrhizinate is obtained from the licorice root (Glycyrrhiza glabra L.) by extraction and purification methods.

REGULATORY INFORMATION AND DESCRIPTION

CAS: 68797-35-3
EINECS: 272-296-1
INCI/ UE: Dipotassium Glycyrrhizate

Molecular formula: C_{42}H_{60}O_{16}K_{2}
Relative molecular weight: 899,142
**PROPERTIES**

Dipotassium Glycyrrhizinate exhibits anti-inflammatory activity due to Glycyrrhizic Acid, the active component.

Glycyrrhizic Acid presents:

- Anti-inflammatory activity: inhibits the activity of the phospholipase A$_2$ that plays an important role in various inflammatory processes. Moreover, Glycyrrhizic Acid inhibits cyclooxygenase activity and the formation of prostaglandins. Also, inhibits in vitro the hyaluronidase, which is active during inflammation.

**PRODUCT APPLICATIONS**

Properties:

- Anti-inflammatory.
- Smoothing and calming.
- Skin conditioning.
- Sebum regulating.

Indications:

- Indicated in the treatment of inflammations skin as wounds, eczema and burns.
- Care of sensitive, fragile and irritable skin.
- Scalp care.

Undesirable effects:

There are neither reported toxic effects nor intolerance phenomenon to normal use doses.

**Dosage and administration:**

**Topical use:**

Dipotassium Glycyrrhizinate may be found formulated in creams, emulsions, lotions, shampoos and toothpastes, among others. Its solubility permits its use in cosmetic preparations with aqueous base.

**BIBLIOGRAPHY AND OTHER REFERENCES SOURCES**