

**DESMODIUM DRIED LEAVES**  
SPECIFICATION SHEET**BOTANICAL DESCRIPTION**

*Desmodium adscendens* is a sarmentous plant with stems more or less that trailing or ascending, pubescent but becoming glabrous when aged. Desmodium derives its name from the Greek “ desmos ” which means “ link ” or “ bundle ”, and refers to the stamens that meet in a tube at their ends. The leaves are trifoliate, with lateral symmetrical leaflets, elliptical or oval, smaller than the terminal leaflet. The ribs are lightly marked. The inflorescences are terminal, elongated. The fruit is a pod ending in a short tip, with 3 to 6 articles at right top edge. It is a perennial non-climbing shrub that develops in a variety of habitats from forests to grasslands and in secondary disturbed vegetation.

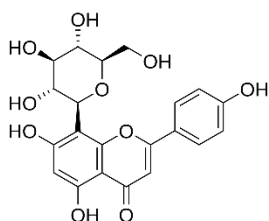
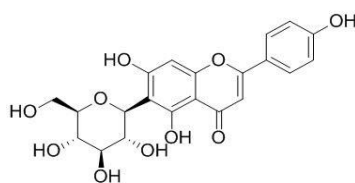
**REGISTRATION NUMBERS**

<b>Botanical Name:</b>	<i>Desmodium adscendens</i>
<b>INCI Name:</b>	<i>Desmodium adscendens</i> Leaves
<b>CAS NUMBER:</b>	NA
<b>ECHA EC Number :</b>	NA

**SPECIFICATIONS/ TECHNICAL CHARACTERISTICS**

<b>Color:</b>	Green
<b>Odor:</b>	Characteristic
<b>Taste:</b>	Characteistic
<b>Loss on Drying:</b>	Max. 12 %
<b>Ash:</b>	Max.12 %
<b>Pesticides:</b>	According to EU 396/2005 Regulation

Desmodium leaves are of interest as they contain various active ingredients, flavonoids including (vitexine and isovitexine), soyasaponins and alkaloids.

**Vitexin****Isovitexin**

## PROPERTIES AND USES

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The leaves extract of *Desmodium adscendens* are known to be useful in the management and treatment of several disease conditions.

- ✚ **Hepatoprotective properties** : The hepatoprotective effect of desmodium is related to its content of triterpenoid saponosides. According to an *in vitro* study, soyasaponins I and III, dehydrosoyasagenin I and soyasapogenol E protect liver cells from damage induced by hepatotoxic substances with normalization of hepatic transaminase levels, mainly TGO (ASAT).
- ✚ **Antioxidant, anti free radical properties** : Several studies have reported the antioxidant properties of Desmodium leaves extracts. It has been demonstrated that the product possesses protective effect against oxidative stress.
- ✚ **Anti-inflammatory, antiallergic, anti-asthma, anti-spasmodic properties**: These properties are related to several identified mechanisms such as arachidonic acid metabolites inhibited by an extract of *Desmodium adscendens*. The product intake also decreases the concentration and release of histamine and dose-dependent spasmogens in the intestine and lungs as well as a in physiological reactions to allergic stimuli.

**Undesirable effects** : Desmodium extract is not recommended for pregnant or breastfeeding women. The product is also contraindicated in case of progressive systemic diseases as well as autoimmune diseases if taken long term (possibility of hepatotoxic effects).

## RECOMMENDED STORAGE CONDITIONS

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The dried desmodium leaves should preferably be stored in dry and well-ventilated area protected from direct light. Under normal storage conditions, the product shelf life is up to 02 years.