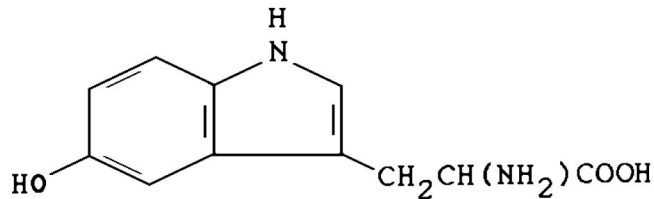




# L-5-HYDROXY TRYPTOPHAN (Griffonia seed extract)

**NAME OF THE PLANT:** Griffonia simplicifolia  
**PART OF THE PLANT USED:** Seeds  
**FORMULA :**  $C_{11}H_{12}N_2O_3$   
**IUPAC NAME:** L-5-Hydroxy-tryptophan  
**SYNONYMS:** Oxitriptan, L-5-HTP, 5HTP

**STRUCTURAL FORMULA:**



MOLECULAR WEIGHT: 220,2

CAS N.4350-09-8

**TECHNICAL DESCRIPTION:**

**Appearance:** White to grey white powder,  
**Solubility:** Insoluble in organic solvents, slightly soluble in water  
**Specific optical rotation:** Between - 30 and - 38  
**pH ( 1% sol. ) :** Between 4.0 and 6.0  
**Loss on drying:** Not more than 2.0 %  
**Sulphated ash:** Not more than 0.2 %

**Identification :**

**IR**  
**Assay:** Perchloric acid titration

**HPLC:**

**Impurities:**

**Microbiology:**

**Storage:** Sealed container and protected from light

IR

Between 99.0 and 101.0 %

Max. 0.5 %

Complies with EP

**PRODUCT APPLICATIONS:** L-5-Hydroxytryptophan is a naturally occurring amino acid, a precursor to the neurotransmitter serotonin and an intermediate in tryptophan metabolism. It is used primarily as an antidepressant, appetite suppressant, as a sleep aid and for the prevention of migraines.

**THERAPEUTIC CATEGORY:** Anti-depressant, anti-anxiety, sleep disorders, migraine.