

Valerian (Valeriana officinalis)

Valerian: from the Latin word valere, which means to be in good health. The herb was first discovered and used by Greek physicians, who recommended it for a host of medicinal uses: Insomnia, Digestive problems, Anxiety, and Epileps.

Valerian Extract is used as a sedative to promote sleep and as a calmative agent. Valerian grows wild over many parts of Europe and Asia. However, most of the valerian used for medicinal extracts is cultivated.

The genus Valeriana is found throughout the world and consists of more than 230 species. Only Valeriana wallichii D.C. (temperate zones of the Himalaya), Valeriana edulis Nutt.ssp. procera F.G. Meyer (Mexico) and especially Valeriana officinalis L. with a broad documented clinical efficacy are of importance to phytotherapy.

Valeriana wallichii, the major species of the genus Valeriana, is native to India, Nepal and China. As an important substitute for the European V. officinalis, it has been traditionally used in treatment of sleep problems, obesity, nervous disorders and snake poisoning and skin diseases.

Valeriana officinalis L. is a perennial herbaceous plant widely distributed mostly in Europe but also in some parts of South America and Asia. It is nowadays cultivated on a large scale for medicinal use in Europe. The plant thrives on the damp surfaces of ditches and ponds, marshlands and at the edges of forrests in temperate zones up to 2400 m.

Sumpure Standardized Extract of Valerian

Extract of valerian (as available from Sunpure Extracts) is a standardized hydroalcoholic herbal extract of the root of Valeriana officinalis L. (Fam. Valerianacae) and Valeriana wallichii as a Herbal remedy for sleeping disorders and nervous tension Valeriana officinalis root extract is a safe and effective herbal medicinal product for the treatment of nervous tension and especially difficulties in falling asleep or lack of sleep quality.

Valeriana officinalis has been approved as safe (GRAS = generally recognized as safe) for food use in the United States.

Valerian extract is composed of many chemical constituents that are suggested to have medicinal properties:

- Valerenic acid
- Valeoptriates
- Amino acids

Valerian Standardized Extract Grades Offered by SUNPURE

Valerian Officinalis Extract (Valerenic acid):

TEST PARAMETERS	SPECIFICATION
Botanical name	Valerian officinalis
Common name	Valerian
Plant part used for extraction	Root
Description	Dark brown hygroscopic fine powder
Assay, (On dried basis)	
Total Valerenic acid content by HPCL	NTL 0.80 - 0.88% w/w

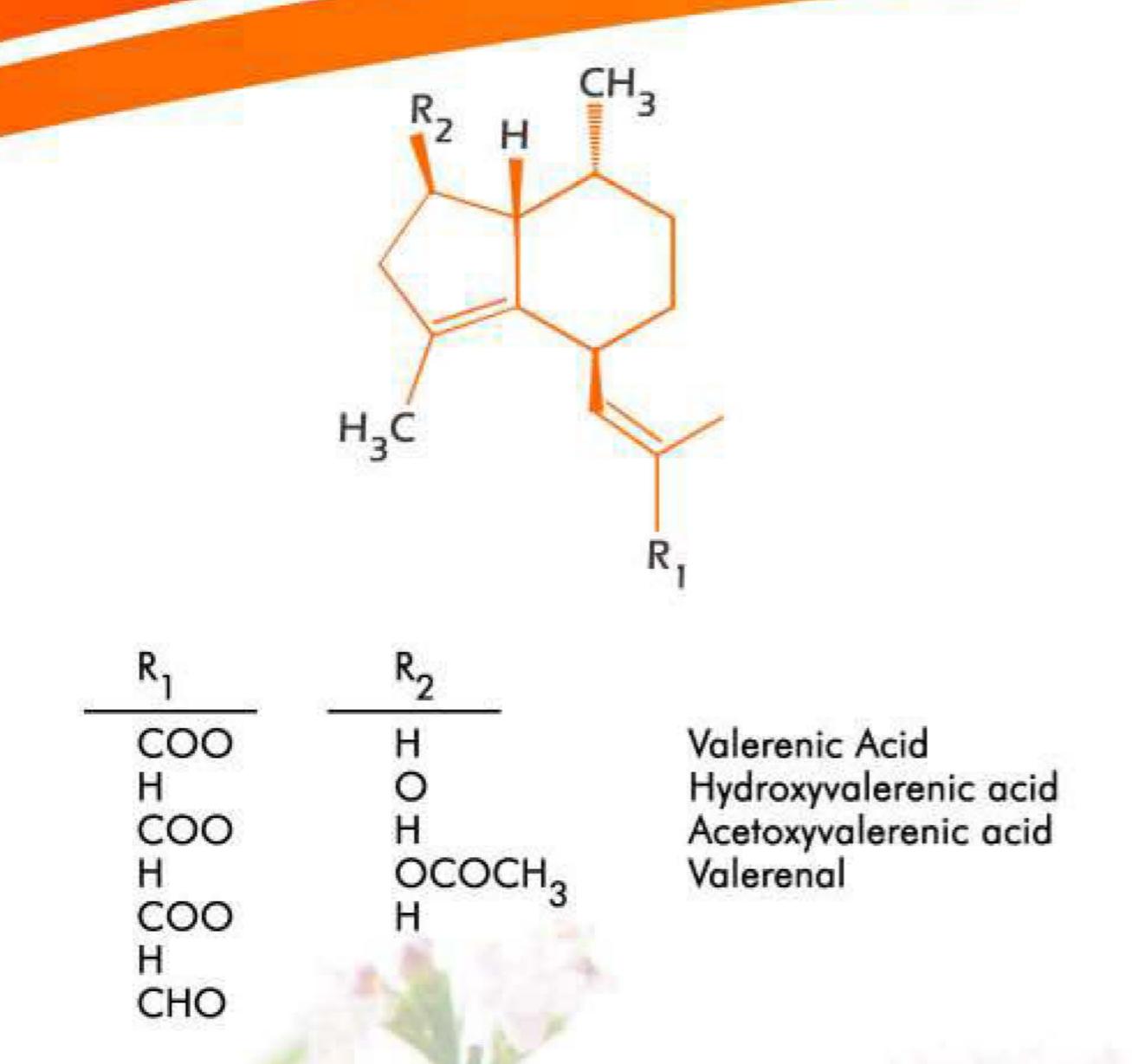
Valerian wallichii Extract (Valepotriates acid):

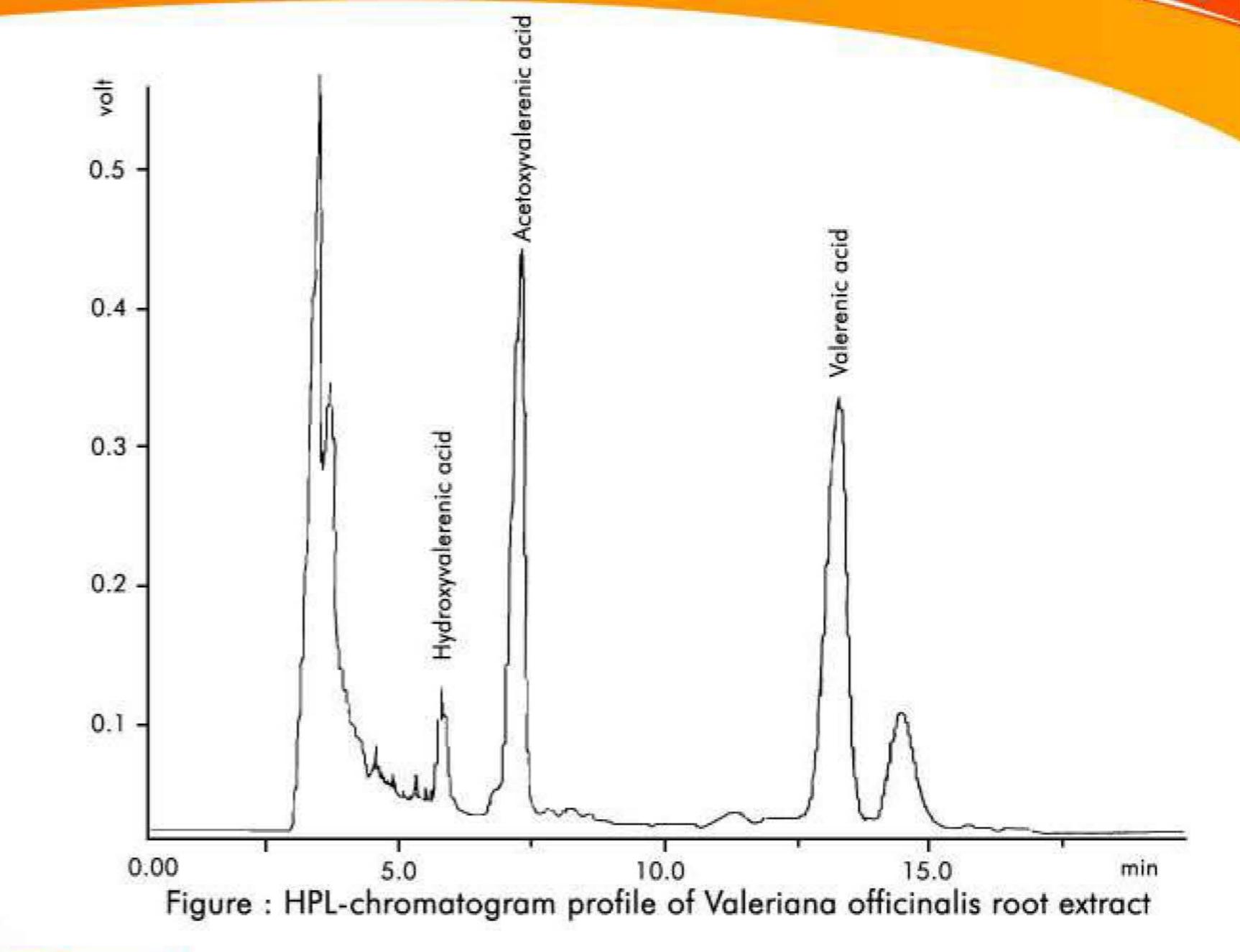
TEST PARAMETERS	SPECIFICATION
Botanical name	Valeriana wallichii
Common name	Valerian
Plant part used for extraction	Root
Description	Dark brown to brown coloured, hygroscopic powder
Assay, (On dried basis)	
Total Valepotriates content (In-house method)	NTL - 1.6% w/w

Biochemical composition of Valerian

Known compounds detected in valerian that may contribute to its method of action are:

- Alkaloids: actinidine, chatinine, shyanthine, valerianine, and valerine
- Isovaleramide
- Gamma-aminobutyric acid (GABA)
- lsovaleric acid
- Iridoids, including valepotriates: isovaltrate and valtrate
- Sesquiterpenes (contained in the volatile oil): valerenic acid, hydroxyvalerenic acid and acetoxyvalerenic acid
- Flavanones: hesperidin, 6-methylapigenin, and linarin





How Vallerian Extract Compounds Works

The main bioactive compounds found in Valeriana fficinalis are alkaloids, iridoids, flavanones, and sesquiterpenes. Valerenic acid is a sesquiterpene responsible for the peculiar smell of valerian herb and, in combination with its derivatives (mainly hydroxyvalerenic acid), is believed to be primarily responsible for the well-known sedative effects of the valerian root. Valerenic acid is thought to interact directly with receptors in the central nervous system (CNS) that handle the production of γ -aminobutyric acid (GABA), a neurotransmitter that promotes relaxation and the onset of deep sleep. Additionally, the iridoids and alkaloids present in the valerian root seem to inhibit inflammatory processes

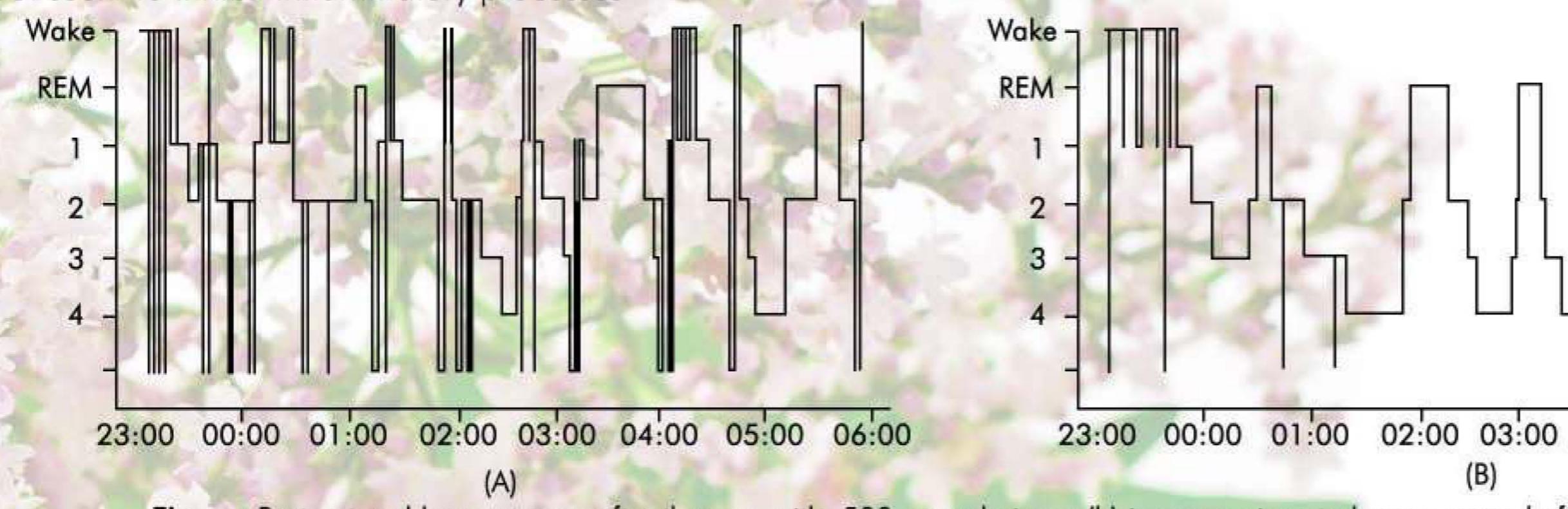


Figure: Restructured hypnogramm after therapy with 500 mg valerian p (b) in comparison to hypnogramm before therapy (a)

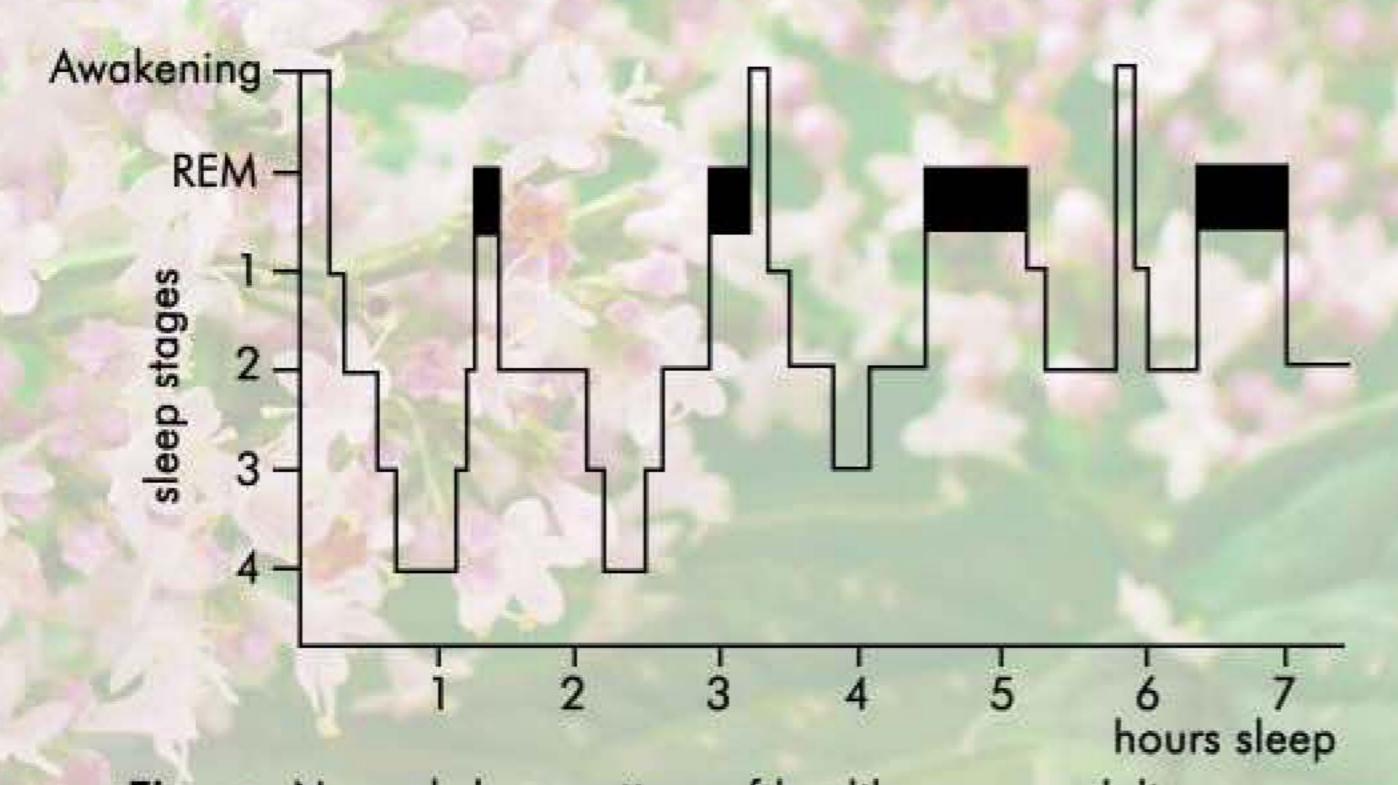


Figure: Normal sleep pattern of healthy young adults



04:00

Figure: Percentage of habitually poor or irregular sleepers reporting a mean rating over 3 nights of better or worse sleep than usual following placebo or valerian treatment

Health Benefits of SEPL Valerian Extract

Valerian health benefits are mainly anxiolytic and sedative, and have been reaped in medicinal forms for centuries. Modern research has proven the usefulness of valerian for:

- Treating insomnia Studies have shown that valerian root compounds work on the brain and nervous system, promoting relaxation and inducing sleep.
- Lowering anxiety Valerian's sedative properties help relieve the symptoms of anxiety. Valerian properties have has also proven effective for treating hot flashes during menopause and the herb has been suggested as an alternative treatment for women who are reluctant to receive hormone therapy.

Additionally, although further studies are necessary to fully understand its mechanisms of action, valerian root has been suggested to possess anti-inflammatory properties.





Valerian Root Relieve Migraine





Relieve Anxiety





Digestive Problem

Regulate Blood Pressure

Sunpure Extracts Private Limited has evolved a frontrunner in botanical extracts and nutraceutical ingredients in India & global platform with a cutting-edge cGMP Manufacturing Plant spread in pristine pollution free environment, Sunpure Research Incubation Centre (SRIC) has team of dedicated scientists and full spectrum testing facilities. SRIC supports company in achieving new bioactives / derivatives along with filing DMFs, Dossiers, patents and working in compliance and tandem with Global Regulatory Bodies.

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