



(7-Hydroxymatairesinol)

Purified Ingredient from Picea abies knots NLT 90% 7-Hydroxymatairesinol potassium acetate complex

Uses

The Norwegian spruce extract is a new generation of **lignan complexes** in **aglycone form that** provides a highly bioavailable supplement and a more digestible alternative to natural sources. It has a **superior bioavailability** and **proven pharmacokinetic properties**, and can be efficiently transformed into enterolactone

The lignans in the Norway Spruce extract **act like oestrogen**, and positively influence the oestrogen balance in the body, which helps to control the severity and frequency of the symptoms of the menopause

This seems to play an important role in their reported prophylactic action against **cardiovascular diseases** and tumours

Key

Food supplement Ingredient

Linnea Extracts

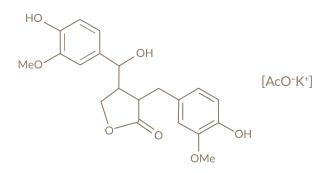
The philosophy of Excellence

- Norwegian spruce knots variety, studied by Turku University
- The knots are sourced in Europe
- **Linnea** works with forestry commissions using a special process to separate the knots from the wood
- Low environmental impact
- Full control over the quality of the green wood
- 7-hydroxymatairesinol, also known as HMR, was firstly isolated by researchers in Finland
- Linnea is currently the only manufacturer of Norwegian spruce extract

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Technical Description

Name of the plant	Picea abies L.
Part of the plant used	Wood knots
Name	4-[Hydroxy(4-hydroxy-3methoxyphenyl)methyl]-3- (4-hydroxy-3-methoxybenzyl)-dihydrofuran-2(3H)-one-potassium acetate adduct
CAS number	Not assigned
Molecular weight	374.39 g/mol (HMR) + 98.14 g/mol (AcOK)
Appearance	Off-white crystalline powder
Solubility	Soluble in ethanol: water 1:1. Practically insoluble in water and hexane
Storage	Preserve in tight container, protected from light, heat and humidity



Analytical Description

Water content: KF	
Assay	
Related substances	

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Linnea's Certificates



No materials containing engineered nanomaterial are used in the manufacturing process and the product is not irradiated The raw material, intermediates and auxiliary compounds are free from pesticides, dioxin and aflatoxins

Manufactured by



Headquarters

Linnea SA Via Cantonale 6595 Riazzino Switzerland T +41 91 850 5050 F +41 91 850 5070 info@linnea.ch www.linnea.ch

US office

Linnea Inc. 19700 Fairchild Road, Suite 380, Irvine, CA 92612 USA T +1 949 502 5760 F +1 732 875 0306 tmcmahon@linnea.ch www.linnea-us.com