

HEALTHCARE

WE ARE SERIOUS ABOUT YOUR WELLBEING!!











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UNDERSTANDING LIGNANS Power of nature

Lignans role in the plant is to increase longevity

Phytoestrogens are plant-derived compounds that are structurally similar to mammalian oestrogens.

PHYTOESTROGENS

LIGNANS

Iso flavonoids

Others

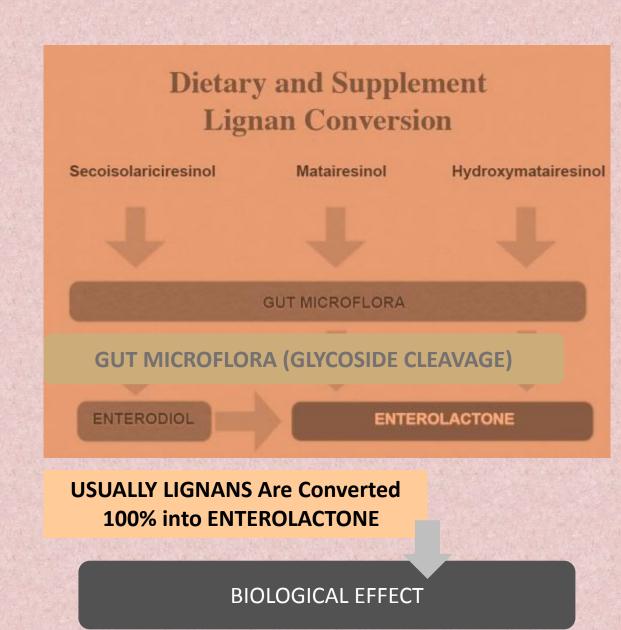


UNDERSTANDING LIGNANS CONVERSION

During the past years over 400 lignans, both in glycoside and non-glycoside form, have been reported

Human's lignan absorption vary considerably due to:

- Glycoside form (slow absorption)
- Difference in intestinal transit time
- Gut microflora composition
- Intestinal inflammation





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WHY HMRLignan™ is superior to the other 400 lignans that have been reported over the years.

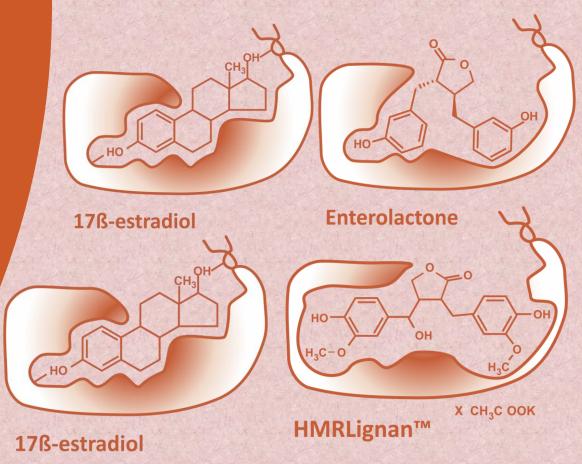
- ✓ HMRLignan™: Being already in the Aglycone form will yield higher levels of both Enterolactone & Active HMRLignan™ in the blood after the HMRLignan™ conversion.1
- Enterolactone Once digested a portion of the HMRLignan™ is converted to enterolactone and are present in the blood. The Enterolactone can however not pass the blood brain barrier and therefore cannot add any therapeutic effect in the brain.6
- ✓ HMRLignan™ Brain Activity: The novel chemical structure of this Phyto-Oestrogen, once available in the blood, penetrates the blood brain barrier and have a positive therapeutic effect in the brain.6



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The Oestrogen Receptor

CHEMICAL STRUCTURE OF ENTEROLACTONE & HMRLignan™



The Chemical structure of Enterolactone & HMRLignan™ resembles the women's own oestrogen chemical structure, and mimic what the body's own oestrogen would do, but in a much less potent way.



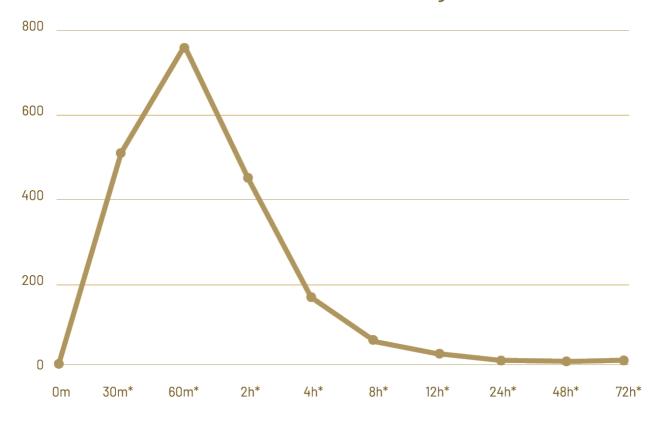
Differently from other lignans, **HMRlignanTM** can be **directly absorbed**and is rapidly detected in the blood.

This is possible thanks to the unique product properties:

- High content of 7-HMR
- Aglycone form
- Crystalline complex with potassium acetate

HMRlignanTM ABSORPTION 7-HMR Plasma levels

7-HMR Pharmacokinetics (ng/ml)



Pharmacokinetic profile of plasma 7-HMR (ng/mL) after supplementation of 36 mg HMRlignan.

Cmax was reached 1 hour after administration (757.1 ng/mL). *All time points from 30 minutes to 72 hours demonstrated a statistically significant increase compared to baseline.

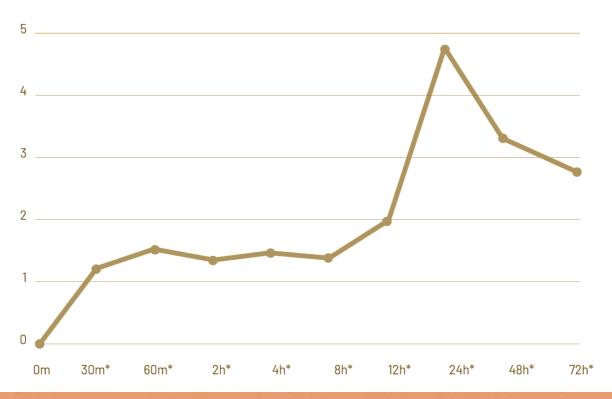


Lignans are transformed by gut flora into enterolactone

- Thanks to the aglycone form, enterolactone from HMRlignanTM shows a high absorption rate
- This creates a prolonged lignans release

HMRlignanTM ABSORPTION Enterolactone Plasma levels

ENL(ng/ml)



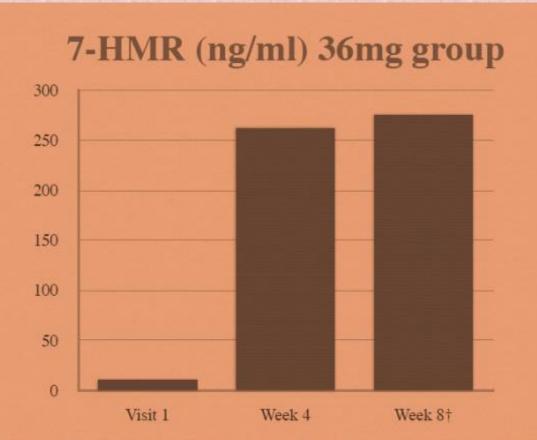
Pharmacokinetic profile of plasma ENL (ng/mL) after supplementation of 36 mg HMRlignan.

Cmax was reached 24 hours after administration of 36 mg HMRlignan (4.8 ng/ml). *All time points from 30 minutes to 72 hours demonstrated a statistically significant increase compared to baseline.



HMRlignanTM AVAILABILITY

8-weeks administration plasma levels



Plasma 7-HMR level after supplementation of 36 mg HMR lignan. 7-HMR level demonstrated an increase of 191% above baseline by week 8 (†p = 0.006).

- Basal 7-HMR plasma levels were very low
- After 8-weeks of administration, 7-HMR levels remains steady

HMRlignan[™] naturally gather within the body



USES AND DOSAGES

HMRlignan™, the natural solution for young and elder people to prevent and help fighting body aging.



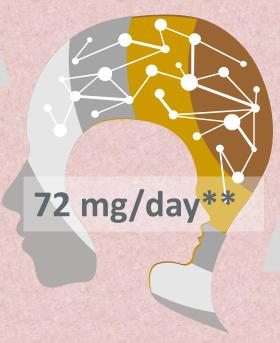
Neuroinflammation - Cerebral aging. 6

Helps fight neuroinflammation.



Anti-Oxidant & Tumour Effects.2

Systemic protection from freeradicals, chronic diseases and degeneration.



Hot Flashes in Menopause.4

Normal and severe events reduction.

Improves BodyWeight & Sugar Metabolism.3



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Tissue aging.5

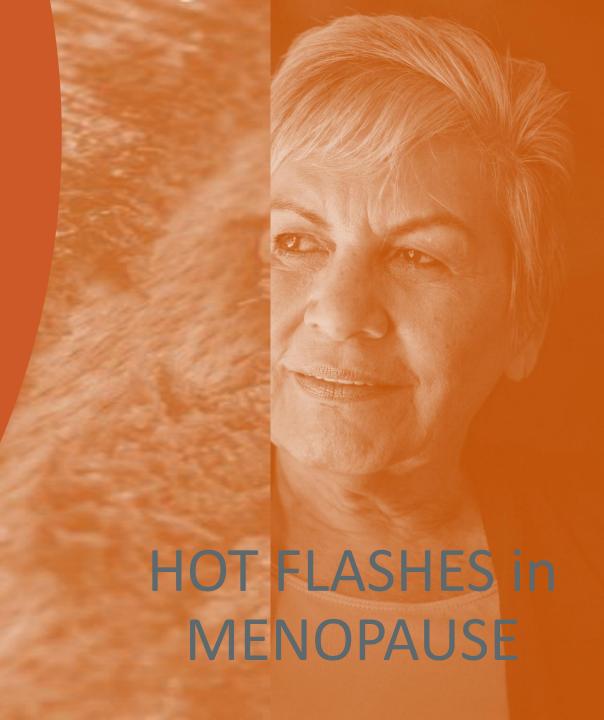
Stimulates hyaluronic acid, collagen and elastin production.

(S)



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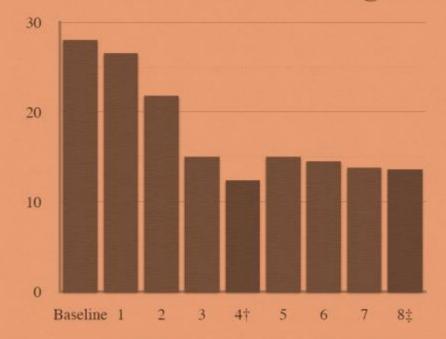


HOT FLASHES FREQUENCY

Episodes reduction

- Pilot study on 12 postmenopausal women
- After 1-week poor lignan diet (wash-out phase), 72 mg HMRlignanTM were administered daily, for 8 weeks
- 50% decrease in hot flashes frequency, compared to baseline

Hot Flashes/Week-72mg Group



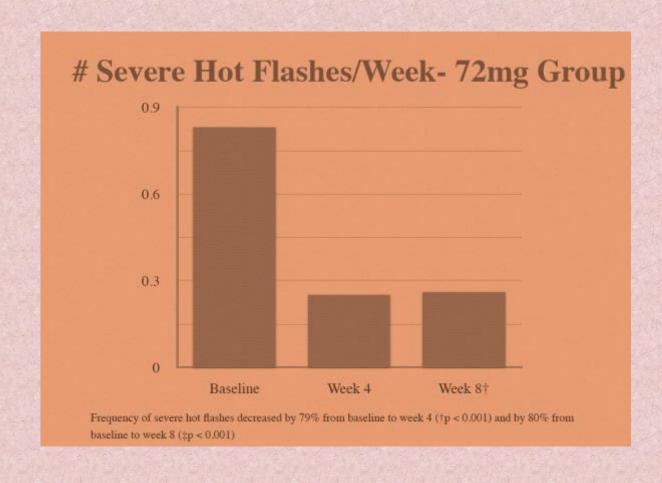
Hot flash frequency decreased by 55% from baseline to week 4 (†p = 0.009) and by 50% from baseline to week 8 (‡p = 0.025).



HOT FLASHES SEVERITY

Less severe episodes

- Pilot study on 12 postmenopausal women
- After 1 week poor lignan diet (washout phase), 72 mg HMRlignanTM were administered daily, for 8 weeks
- 79% fewer severe hot flashes, compared to baseline





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NEUROINFLAMMATION

CEREBRAL AGING



CEREBRAL AGING DELAY

A leading strategy to prevent age-related brain issues

HMRlignan™ consumption showed neuronal loss reduction up to 30%.

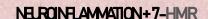
An important tool to prevent neurodegenerative agerelated issues.

NORMALERAIN



NELROINFLAMMATION







STUDY DESCRIPTION: The toxin 6-OHDA induces a considerable loss of neuron terminals and cell bodies. Animals treated with HMRlignan[™] showed a 30% significant reduction of dopaminergic terminal loss in the nigrostriatal pathway (basal ganglia region). The nigrostriatal lesion was assessed by immunohistochemistry for the dopaminergic marker tyrosine hydroxylase (TH) on coronal sections of both central nervous system and striatum after 28 days of treatment with HMRlignan[™].



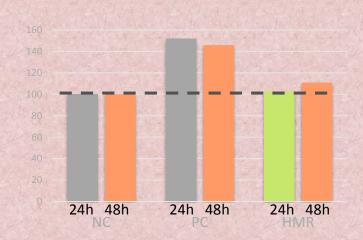


TISSUE AGING DELAY

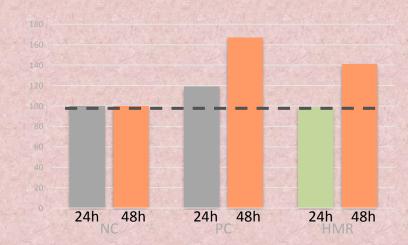
Effects on Structural Fibers - Cells

In vitro investigation performed on human skin fibroblast, incubated for 24 hours and then treated with HMRlignanTM or insulin (positive control).

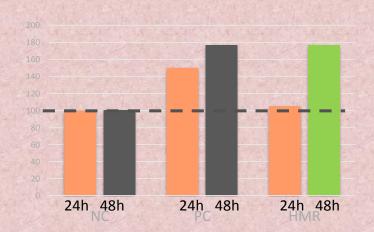
Hyaluronic acid production:



Collagen I production:



Elastin production:





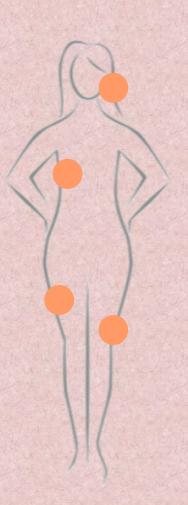
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HMRlignanTM improves the production of the three main structural components of connective tissues, present in skin, joint and bones.

Tissues are correctly nourished despite the flow of time.

TISSUE AGING DELAY

Effects on Structural Fibers - Cells



ELASTICITY, STRENGHT

Elastin production: +77%

SUPPORT, SHAPE

Collagen I production: +41%

HYDRATION, REGENERATION

Hyaluronic acid production: +10.85%



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LILIA MENOPAUSE CAPSULES 72mg HMRLignan™ / CAPSULE LEGISLATORY

HMRlignan™ has been registered as a New Dietary Ingredient (NDI) with the US FDA since 2004. The recommended daily ratio is – for any indication - 72 mg/day

LILIA MENOPAUSE is marketed in accordance with the criteria laid down by SAHPRA and is Manufactured in a GMP SAHPRA accredited manufacturing plant.



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ADDITIONAL PROMINENT ACCREDITATION OF HMRLignan™











Halal certified



Kosher certified



Vegan certified



Irradiation,
Nanomaterials, Latex



Standardized botanicals





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Willem J Buys (B Sc Pharm)PCDT

Managing Director

+27 44 382 0382

+27 82 450 2062

willemsnr@wellhousehealthcare.co.za www.wellhousehealthcare.co.za



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THANK YOU
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