

STATEMENT ON A NONPROPRIETARY NAME ADOPTED BY THE USAN COUNCIL

USAN (JK-197)

PLECTRANTHUS AMBOINICUS
EXTRACT

PRONUNCIATION

plek tran' thus am boin' i kus

THERAPEUTIC CLAIM

Treatment of diabetic foot ulcers

CHEMICAL NAMES

1. *Plectranthus amboinicus*, ext.

2. Botanical extract obtained from *Plectranthus amboinicus* through extraction by ethanol and fraction by resin. Principal components include flavonoids, phytosterols (approx. 5%), chlorophylls (approx. 5%) and fatty acids (approx. 16%).

STRUCTURE

KEY COMPONENTS

Component(s)	Content
Rosmarinic acid	~0.2%
Cirsimaritin	~0.2%
Carvacrol	~ 1%
Salvigenin	~0.2%
Phytosterols (Campesterol, stigmasterol, β -sitosterol)	~5%
Chlorophylls (Chlorophyll a, chlorophyll b)	~5%
Fatty acids (Saturated fatty acids: lauric acid, myristic acid, palmitic acid, stearic acid, arachidic acid, behenic acid, tetracosanoic acid. Unsaturated fatty acids: palmitoleic acid, oleic acid, linoleic acid, linolenic acid, paullinic acid)	~16%
Sugars	~4%

MOLECULAR FORMULAS

Constituent	Formula
Salvigenin	$C_{18}H_{16}O_6$
Cirsimaritin	$C_{17}H_{14}O_6$
Carvacrol	$C_{10}H_{14}O$
Rosmarinic acid	$C_{18}H_{16}O_8$
<i>Phytosterols</i>	
Campesterol	$C_{28}H_{48}O$
Stigmasterol	$C_{29}H_{48}O$
β -sitosterol	$C_{29}H_{50}O$

<i>Chlorophylls</i>	
Chlorophyll a	C ₅₅ H ₇₂ MgN ₄ O ₅
Chlorophyll b	C ₅₅ H ₇₀ MgN ₄ O ₆
<i>Saturated fatty acids</i>	
Lauric acid	C ₁₂ H ₂₄ O ₂
Myristic acid	C ₁₄ H ₂₈ O ₂
Palmitic acid	C ₁₆ H ₃₂ O ₂
Stearic acid	C ₁₈ H ₃₆ O ₂
Arachidic acid	C ₂₀ H ₄₀ O ₂
Behenic acid	C ₂₂ H ₄₄ O ₂
Tetracosanoic acid	C ₂₄ H ₄₈ O ₂
<i>Unsaturated fatty acids</i>	
Palmitoleic acid	C ₁₆ H ₃₀ O ₂
Oleic acid	C ₁₈ H ₃₄ O ₂
Linoleic acid	C ₁₈ H ₃₂ O ₂
Linolenic acid	C ₁₈ H ₃₀ O ₂
Paullinic acid	C ₂₀ H ₃₈ O ₂

MOLECULAR WEIGHTS

Name	Molecular Weight
Salvigenin	328.32
Cirsimaritin	314.29
Carvacrol	150.22
Rosmarinic acid	360.32
<i>Phytosterols</i>	
Campesterol	400.68
Stigmasterol	412.69
β-sitosterol	414.70
<i>Chlorophylls</i>	
Chlorophyll a	893.50
Chlorophyll b	907.49
<i>Saturated fatty acids</i>	
Lauric acid	200.32
Myristic acid	228.37
Palmitic acid	256.43
Stearic acid	284.48
Arachidic acid	312.54
Behenic acid	340.59
Tetracosanoic acid	368.65
<i>Unsaturated fatty acids</i>	
Palmitoleic acid	254.41
Oleic acid	282.46
Linoleic acid	280.45
Linolenic acid	278.43
Paullinic acid	310.51

TRADEMARKS

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CODE

PA-F4

CAS REGISTRY NUMBER

2227007-07-8

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