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CERTIFICATE OF ANALYSIS

CAT. No.: 020029

Product Name: **MADECASSIC ACID**

CAS Number: [18449-41-7]

Lot No.: 03011002

Chemical Formula: $C_{30}H_{48}O_6$

Molecular Weight: 504.71

Melting Point: 260-270°C

Appearance: White powder

[α]_D: +31°C (C=1.5 in methanol)

Moisture: 5.1%

Thin Layer Chromatography:

-Support: Silicagel
-Solvent: Chloroform/ethanol (90/10:V/V)
-Detection: p-Anisaldehyde/acetic acid/sulfuric acid (1/40/1:V/V/V) then heating at 110°C 10mn

HPLC: -Column: Novapak C18^R
-Solvent: Acetonitrile/Water(43/57:V/V)
-Flow Rate: 1.5 ml/mn
-Detection: 200 nm
-tR: 5.8
-K': 4.15

Observation: Madecassic acid is a mixture of 2 isomers:
one of type Olean-12-ene and
one of type urs-12-ene Obsrvable in 13C NMR