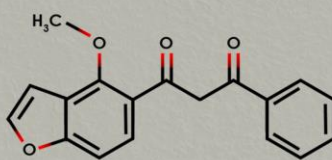


Pongamol Extract



PRODUCT IN FOCUS



Pongamol Extract

INTRODUCTION

Pongamol is a naturally occurring flavonoid primarily extracted from the seeds and leaves of the *Pongamia pinnata* tree (also known as Karanja tree), native to South and Southeast Asia. It is a cream-colored compound that belongs to the flavonoid family and is known for its antioxidant, anti-inflammatory, antimicrobial, and pesticidal properties. It is one of the key bioactive constituents of Pongamia oil.

MANUFACTURE

The extraction of Pongamol typically involves the following steps:

1. Mature seeds or leaves of *Pongamia pinnata* are selected and cleaned. The material is shade-dried and ground into a fine powder.
2. Solvents like ethanol, methanol, or hexane are used to extract Pongamol.
3. The extract is filtered, and the solvent is evaporated under reduced pressure to concentrate the Pongamol.

APPLICATIONS

Pharmaceuticals & Nutraceuticals:

- Shows anti-inflammatory, antioxidant, anti-cancer, and antibacterial activities.
- Potential therapeutic use in skin disorders, rheumatoid arthritis, and diabetes.

Cosmetics:

- Incorporated into skincare formulations for its antioxidant and anti-inflammatory effects.
- May help in reducing pigmentation and protecting the skin from UV-induced damage.

Animal Health:

- Used in veterinary formulations to treat skin infections and parasites.

Agriculture:

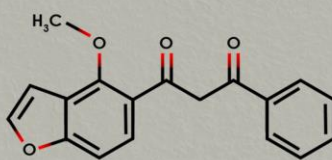
- Biopesticide and natural insect repellent due to its antifeedant and growth-inhibiting properties.
- Used in organic farming as an eco-friendly alternative to chemical pesticides.

Bioenergy Sector:

- Pongamol is studied for its role in biofuel production, particularly from Pongamia oil derivatives.

Botanical name	<i>Pongamia glabra</i>
CAS no.	484-33-3
EINECS no.	414-540-3
Molecular formula	C ₁₈ H ₁₄ O ₄
Molecular weight	294.3
Structure	

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Cream color powder
Melting range	-	126.0 °C – 132.0 °C
Loss on drying	%	NMT 3.0
Assay (Pongamol by HPLC)	%	NLT 95.0
Heavy Metals		
Arsenic (as As)	ppm	NMT 1.0
Cadmium (as Cd)	ppm	NMT 1.0
Lead (as Pb)	ppm	NMT 3.0
Mercury (as Hg)	ppm	NMT 0.1
Microbiological analysis		
Standard plate count	cfu/g	NMT 1000
Yeast & Moulds	cfu/g	NMT 100
<i>Escherichia coli</i>	-	Should be absent
<i>Staphylococcus aureus</i>	-	Should be absent
<i>Salmonella</i>	-	Should be absent

PACKING

25 kg HDPE drum.

STORAGE

Store at cool, dry place away from light & moisture.

CERTIFICATIONS

GMP, FSSAI, HALAL

ExSyn offers Pongamol extract on commercial scales and welcomes enquiries. Our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.