



## ACANTHONPANACIS X-R5 HERBAL EXTRACT OIL

The information has been structured in accordance with international standards, ensuring clarity, accuracy, and reliability for use in highly specialized pharmaceutical environments, including vaccine production processes. Its content is designed for qualified professionals, supporting responsible, safe handling aligned with industry best practices.

### 1. PRODUCT IDENTIFICATION

**Product Name:** Acanthonpanacis X-R5 Herbal Extract Oil

**Manufacturer:** Sinergy Harvest Lab Costa Rica

**Botanical Source:** Acanthonpanacis plant

**HSN Code:** 3301

**Intended Use:** Pharmaceutical applications, specifically recommended for vaccine production.

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Active Ingredients:** Bioactive alkaloids, Anticancer flavonoids, terpenoids

**Purity:**  $\geq 99\%$  purity (as per HPLC analysis)

**CAS Number:** Not assigned (Natural Extract)

**Appearance:** Golden pale yellow to amber-colored oil with strong herbal scent.

### 3. HAZARDS IDENTIFICATION

**Classification:** Not classified as hazardous under normal handling.

**Potential Health Effects:** May cause skin or eye irritation. Inhalation of vapors may cause respiratory irritation.

**Environmental Hazards:** Avoid release into the environment, toxic to aquatic organisms at high concentrations.



#### 4. FIRST AID MEASURES

**Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.

**Skin Contact:** Wash with soap and water. Remove contaminated clothing.

**Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.

**Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical assistance immediately

#### 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO<sub>2</sub>).

**Unsuitable Media:** Direct water jet.

**Fire Hazards:** Combustible liquid may emit toxic fumes under fire conditions.

**Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use PPE including gloves and goggles.

**Environmental Precautions:** Prevent entry into waterways, soil, and drains.

**Methods for Clean-up:** Absorb with inert material and place in suitable container for disposal

#### 7. HANDLING AND STORE

**Handling:** Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

**Storage:** Store in a cool, dry place away from direct sunlight. Keep in tightly sealed amber glass or aluminum containers.

**Shelf Life:** 24 months from date of production.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Ensure adequate ventilation.

**Personal Protection:** Safety glasses, protective gloves, lab coat, and respiratory protection if vapors are generated.

**Hygiene Measures:** Wash hands after handling.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Golden pale yellow to amber-colored oil

Odor: Strong herbal scent

Density: 0.90 - 0.96 g/cm<sup>3</sup>

Refractive Index: 1.470 - 1.490 @ 25°C

Acid Value: ≤ 1.5 mg KOH/g

Peroxide Value: ≤ 5.0 meq/kg

Moisture Content: ≤ 0.5%

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to heat, light, and air.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides and other toxic fumes under fire conditions

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available.

Skin/Eye Irritation: May cause mild irritation.

Sensitization: Not expected to be a sensitizer.

Chronic Effects: No data available.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms at high concentrations.

Persistence/Degradability: Expected to be biodegradable.

Bioaccumulation: Not expected.

Mobility: May float on water and spread.

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local, regional, national, and international regulations.



## 14. TRANSPORT INFORMATION

UN Number: Not assigned

Transport Hazard Class: Not classified as dangerous goods

Packaging: Use sealed amber glass bottles or aluminum containers

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

UN proper shipping name: Not applicable.

Transport hazard class(es): No transport warning sign required.

Packing group: Not applicable.

Environmental hazards: Not an Environmentally hazardous substance/marine pollutant

Special precautions for users: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

## 15. REGULATORY INFORMATION

ISO Certification: ISO 9001:2015, ISO 22000 Meets USP/BP/EU Pharmacopeia guidelines

Allergen-Free: Free from gluten, soy, dairy, and artificial additives

Authorizations: No specific authorizations are known for this product.

Restrictions: No specific restrictions on use are known for this product.

Chemical Safety Assessment: No chemical safety assessment has been carried out.

## 16. OTHER INFORMATION

This information is based on the current state of technical knowledge and is intended solely to describe the product with respect to health, safety, and environmental considerations. It should not be interpreted as a guarantee, either express or implied, of any specific properties of the product.

The use of this material is strictly limited to properly trained and qualified personnel. This document is not intended to replace, nor should it be considered a substitute for, a comprehensive risk assessment, which must always be conducted by competent professionals in accordance with applicable standards and best industry practices.