

Technical Data Sheet (TDS)

Product Name: Pheromone Lure for *Batrachedra amydracula* (Lesser Date Moth)

Formulation Type: Silicone Rubber septa dispenser impregnated with pheromone blend

1. Product Overview

The *Batrachedra amydracula* pheromone lure is specifically designed for monitoring and mass trapping of the **lesser date moth**, a serious pest of date palms in the Middle East, North Africa, and Asia. By attracting and trapping male moths, the lure helps in early detection, population monitoring, and reducing mating success, thereby lowering infestation levels and minimizing crop losses.

2. Active Ingredients

The lure contains a **synthetic pheromone blend** that mimics the natural female sex pheromone of *Batrachedra amydracula*.

- **Z4,Z7-Decadien-1-yl acetate**
- **Z5-Decen-1-yl acetate** (CAS: 69222-16-8)
- **Z5-Decen-1-ol** (CAS: 51652-47-2)

Total Loading per Lure: 1 mg

3. Dispenser

- **Type:** High-grade Silicone rubber septum
- **Function:** Provides controlled release of pheromone blend over several weeks
- **Packaging:** Individually sealed in aluminum foil pouches for protection against oxidation, UV, and contamination

4. Mode of Action

The pheromone lure releases the synthetic blend gradually into the environment. Male moths are strongly attracted to the lure, mistaking it for a calling female. This enables:

- **Monitoring:** Detection of pest presence and flight activity
- **Mass Trapping:** Reducing male population and mating frequency
- **Decision Support:** Timing of control measures (e.g., biological or cultural practices)

5. Field Performance

- **Effective Duration:** 4–6 weeks under typical field conditions
- **Recommended Trap Types:** Delta traps, funnel traps, or sticky traps
- **Trap Placement:** 1.5–2.0 m height within the crop canopy
- **Trap Density:** For monitoring - 3 to 4 traps per 1 Acre; for mass trapping – 20 to 30 traps per Acre

6. Storage and Stability

- Store in original sealed pouches at ≤ 4 °C
- Shelf life up to 24 months under proper storage conditions
- Avoid direct sunlight, high temperatures, and moisture

7. Safety and Environmental Aspects

- Non-toxic and safe for humans, animals, and beneficial insects
- Eco-friendly alternative to chemical pesticides
- No residues on fruits or soil
- Suitable for conventional and organic farming systems

8. Packaging

- **Standard Pack:** 10 or 25 lures per box (customization available)
- **Inner Packaging:** Individually sealed aluminum foil pouches
- **Outer Packaging:** Corrugated cartons suitable for long-distance transport

9. Advantages

- High specificity for *Batrachedra amydraula*
- Reduces pesticide dependence
- Improves crop protection and yield quality
- Compatible with Integrated Pest Management (IPM) strategies
- Cost-effective and easy to deploy in the field

10. Disclaimer

The information contained in this TDS is based on reliable data and field research but is provided **without warranty or guarantee**. The product is intended **only for agricultural monitoring and pest management**. Users are responsible for verifying suitability under their local conditions and for complying with applicable regulations. The manufacturer assumes no liability for misuse or handling beyond the recommended scope.