

Site Inspection Report: Veterinum TeM Pilot Breeding Centre

Location: Veterinum Headquarters, Ulcinj

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Inspection Conducted By: Expert Team, Belinda Animals

1. Introduction

This report provides a detailed account of the site visit conducted by the expert team from Belinda Animals at the Veterinum Pilot Breeding Centre in Ulcinj. The purpose of the visit was to evaluate the current progress, provide further support, and assess the potential for expansion of the Tenebrio Molitor (TeM) larvae breeding operations.

2. Objectives

- Assess the current status of the Pilot Breeding Centre.
- Evaluate the effectiveness of the implemented systems and processes.
- Identify areas for further growth and expansion.
- Provide recommendations for ongoing development.

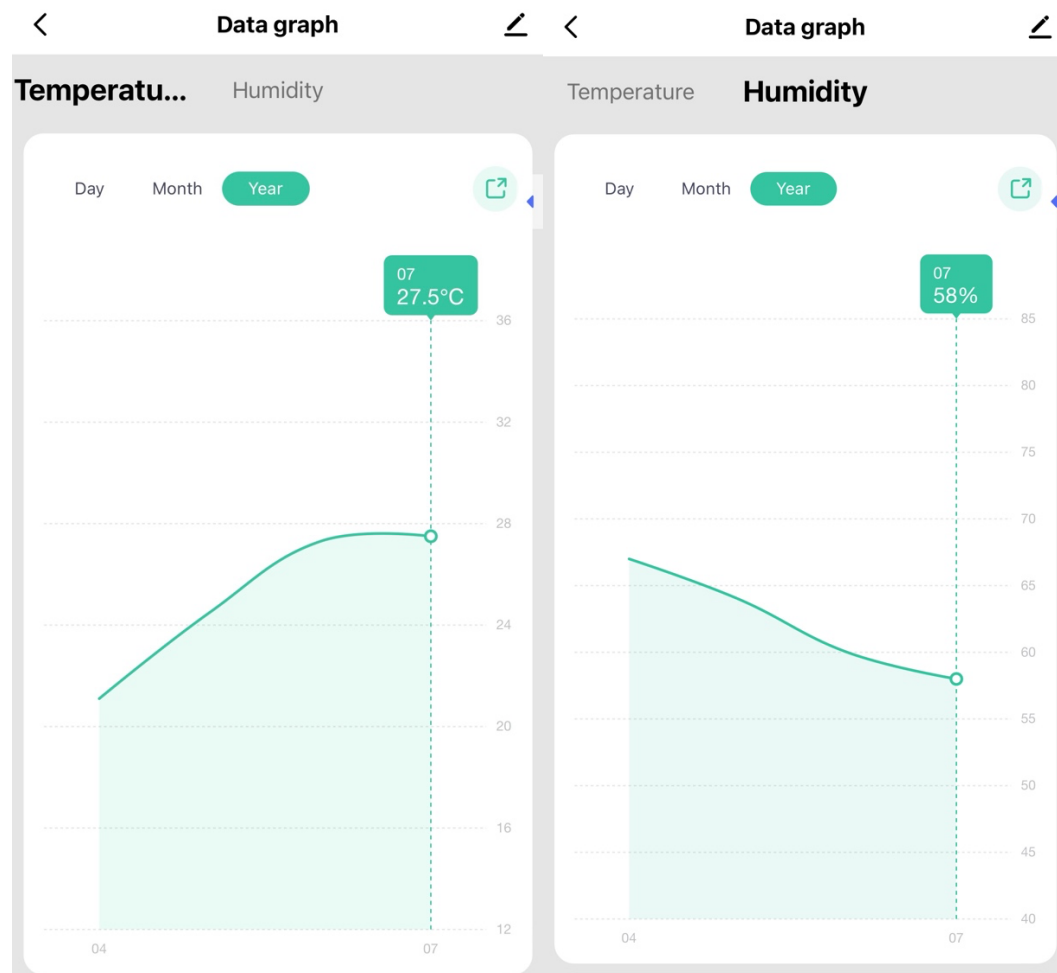
3. Current Status

Facility Condition:

The breeding facility, covering 30 square meters, remains in excellent condition. The room is fully isolated, equipped with high-efficiency air conditioning, and features automated systems for controlling temperature and humidity. The cleanliness and hygiene standards are maintained at the highest levels, ensuring an optimal environment for larvae breeding. Addition is adding blackout material on windows in order to maintain dark conditions which are favorable for larvae breeding and lowering temperature rise during sunny parts of the day.

Operational Systems:

All installed systems, including temperature and humidity sensors, automatic humidifiers, and advanced monitoring equipment, are functioning as intended. The real-time data monitoring system provides accurate readings, facilitating prompt adjustments to maintain ideal breeding conditions. Most important indicators of temperature and humidity are followed on daily base and throughout whole period since opening are brought to ideal levels of 27-28 degrees Celsius and between 55-60% of humidity.



Staff Performance:

The dedicated team at Veterinum, consisting of one agricultural expert and three operational staff members, has demonstrated exceptional performance. The staff is well-trained and proficient in managing daily operations, as evidenced by their effective handling of the breeding processes.

4. Progress and Achievements

Colony Growth:

There has been a significant increase in the number of TeM colonies. Over 10 new batches have been successfully established, indicating robust growth and effective breeding practices. This growth aligns with the planned objectives and sets a strong foundation for further expansion.

Batch Production:

The new batches are on track to yield substantial outputs, contributing to the scalability of the breeding operations. The quality and health of the larvae are consistently high, thanks to the precise environmental controls and diligent management by the staff.

5. Recommendations for Expansion

Scaling Up Operations:

- **Infrastructure Enhancement:** Consider expanding the physical space dedicated to breeding operations to accommodate more batches. Additional rooms with similar environmental controls can be established to increase production capacity.
- **Advanced Equipment:** Invest in more advanced breeding and handling as well processing equipment to further optimize the breeding process and increase efficiency.
- **Training and Development:** Continue providing regular training sessions for the staff to stay updated with the latest breeding techniques and best practices. Additional training on advanced topics can further enhance their skills and productivity.

Research and Development:

- **Innovation:** Explore innovative techniques and technologies to improve breeding efficiency and larvae health. Collaborate with research institutions to stay at the forefront of advancements in TeM breeding.
- **Sustainability:** Implement sustainable practices in waste management and resource utilization to minimize environmental impact and enhance the sustainability of the operations.

Community and Market Engagement:

- **Awareness Programs:** Conduct awareness programs and workshops for local farmers and stakeholders to highlight the benefits of TeM breeding. This can foster community support and create new opportunities for collaboration.

- **Market Expansion:** Explore potential markets for TeM larvae and related products. Develop a comprehensive marketing strategy to promote the products and expand the market reach.

6. Conclusion

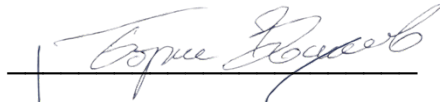
The Veterinum Pilot Breeding Centre has made remarkable progress since its inception. The successful establishment of new batches and the effective management of breeding operations demonstrate the centre's potential for further growth and expansion. With continued support, investment, and innovation, the centre is well-positioned to become a leading model for sustainable TeM breeding practices.

Belinda Animals remains committed to supporting Veterinum in this journey, providing expertise, resources, and guidance to ensure the continued success and scalability of the breeding operations.

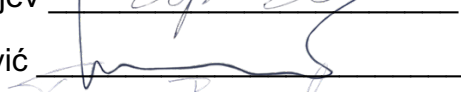
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