



Meeting with **ABIM**

October , 2015

- An Israeli company
- Develops eco-friendly, cost-effective biocontrol products
- Product portfolio is based on breakthrough technology - unique microencapsulation of botanical essential oils
- BotanoCap's biodegradable delivery systems ensure precise distribution of the pesticide which is residue-free!
- Co-founded a subsidiary in China - Harbin Botanocap Development Co. Ltd.

A member of:



Applications



Soil treatment



Nurseries



Field crop protection



Post-harvest treatment



Fresh cut



Innovation



Our Concept: Introducing Creative Delivery Systems

When innovation and creativity
comes together in **smart solutions**



Sachet



Fabric



Pod



Liquid



Granule

Products





In a nutshell

- Long term storage of Potatoes
- Sprouting inhibitor
- Does not require any infrastructure in the warehouse
- Designated for the retail – 5- 10 kg potatoes packaging
- Up to the warehouse – 40 tones

Intended use



Post harvest in
potatoes for *sprouting
inhibitions*



Features

- Organic
- Slow release
- GRAS and food grade

Pipeline

Additional fruits and vegetables

Benefits



Breakthrough proprietary technology



Cost effective:
dramatically
reduces storage
and shipping costs



Provides effective
anti-fungal and anti-
microbial protection
for over 30 days



Free from residuals















In a nutshell

- A recently developed product that prolongs the transportation and extends storage life of post-harvest produce
- BotanoFresh is a Sachet with encapsulated, controlled-release natural preservative
- Natural pesticides slowly evaporate from the fabric and provide a pest-free environment for up to 30 days

Intended use



Uses for long term storage and delivery of fresh post-harvest produce



BotanoFresh™

Features

- Organic
- Slow release
- GRAS and food grade

Pipeline

Fruits, vegetables
and ornamentals





BotanoFresh™

Features

- Organic
- Slow release
- GRAS and food grade

Pipeline

Fruits, vegetables
and ornamentals





In a nutshell

- This mixture acts as an enzymatic \Antioxidant agent
- Food grade formula
- Not scientifically searched yet

Intended use



Used to wrap delivery boxes and crates of fresh post-harvest produce

Left : Control

Right: BotanoFresh™ Fabric formulation





In a nutshell

- 40% of produce doesn't reach the market due to poor transportation conditions, and insect and microbial infestation!
- OrGranular Sachet contains a powder formulation of microencapsulated essential oils that dramatically reduce post-harvest issues

Intended use



Post harvest in
peppers for
prevention of *Botrytis*







- 4 patents families
- 2 provisional application, patent-pending
- Granted in 20 countries in EU, USA, Latin America and Asia
- BotanoCap's unique micro-encapsulation technology platform has patented:
 - Composition of compounds
 - The preparation process
 - Applications



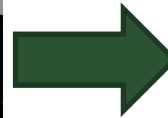
The process



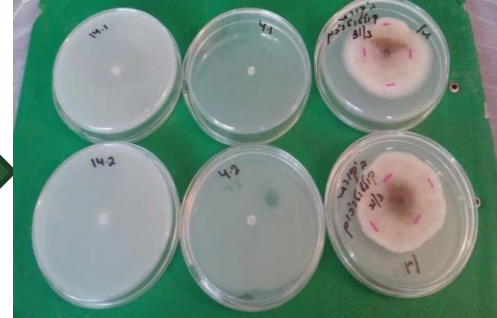
Identification



Lab Tests



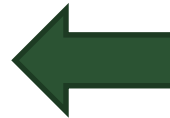
Microbiology tests



Large scale storage tests

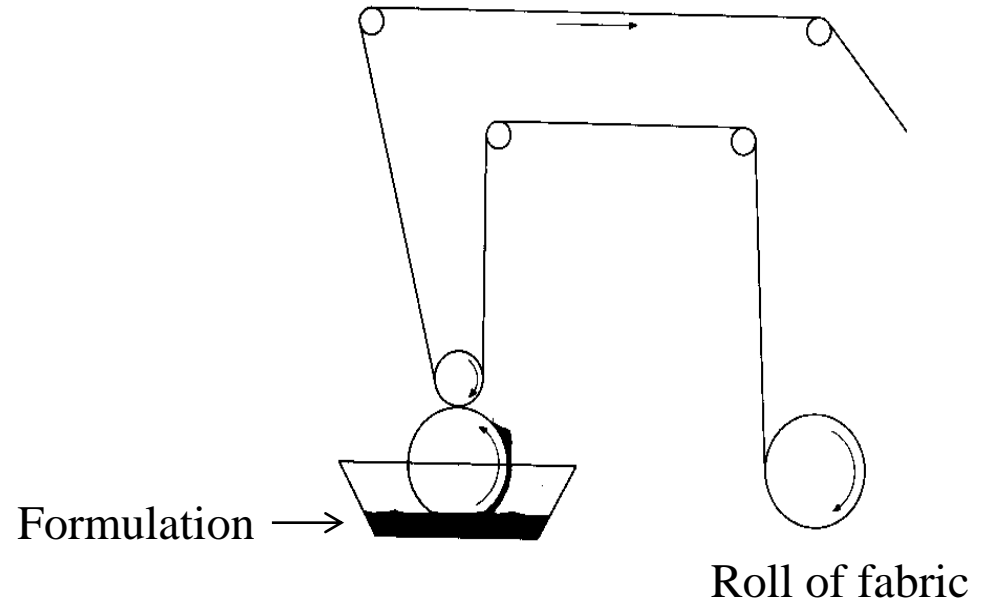
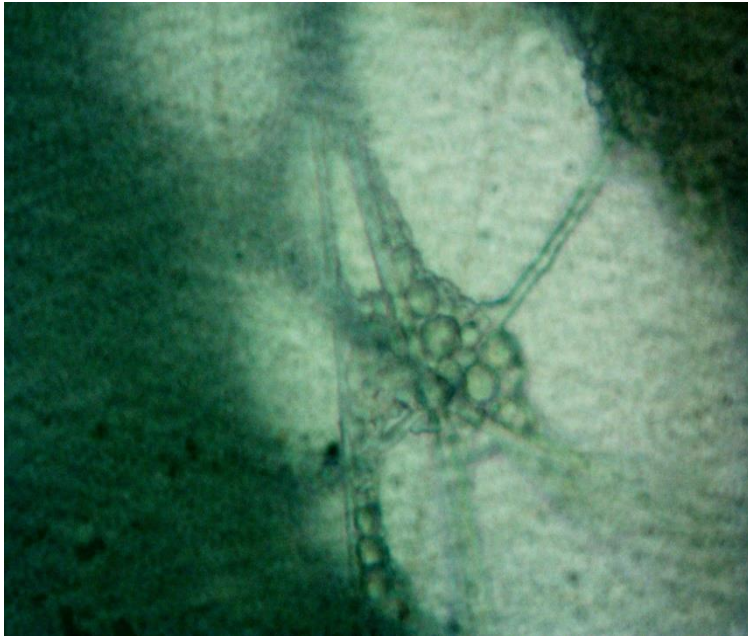


Controlled studies

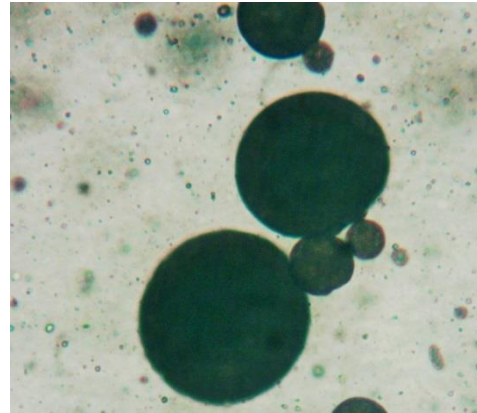


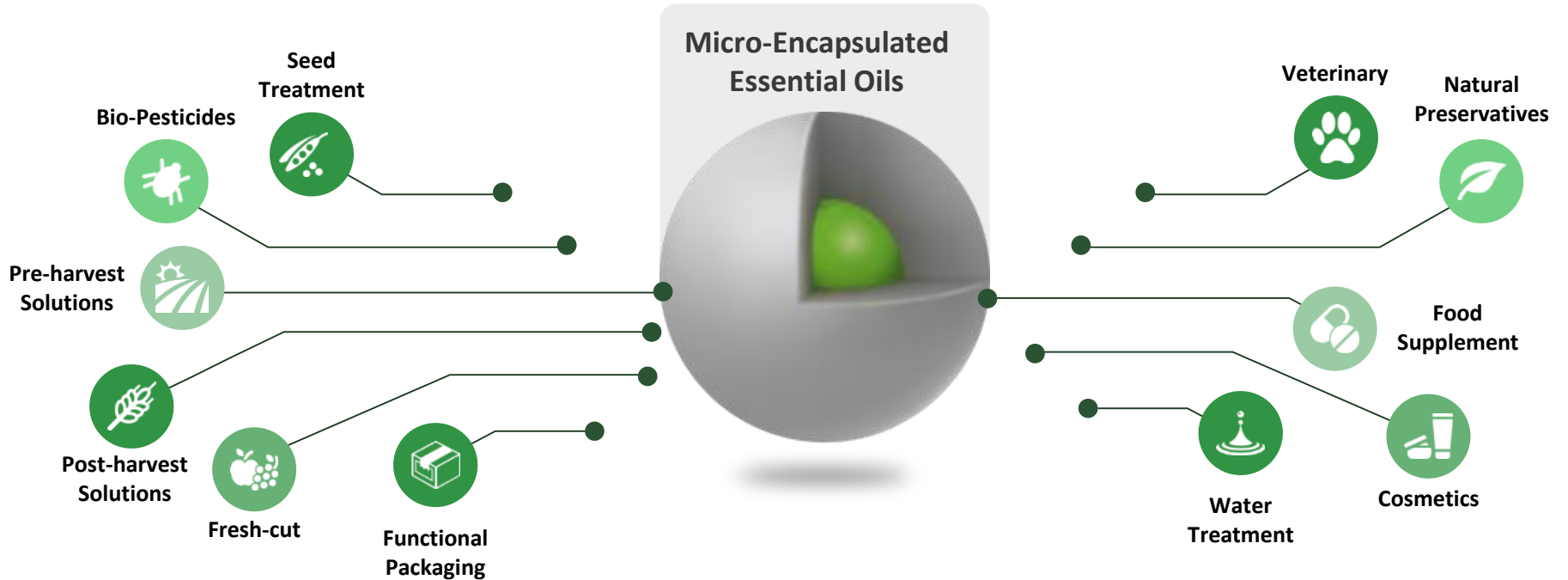
- The microcapsules are of the core/shell type, preventing direct contact with the oil
- Coating of the fabric can be done in several ways:
 - Spraying
 - Dipping
 - “Gravure”
- Capsules stick to the fabric with the aid of “sticker” compounds inherent to the formulation
- A high surface area, flexible, active fabric is thus being produced





- Microcapsules are produced by a simple procedure in an aqueous media, using food grade materials
- Sachets are made from inexpensive polypropylene nonwoven fabric
- Different release rates can be achieved by changing different parameters during the production







Thank You

www.botanocap.com

