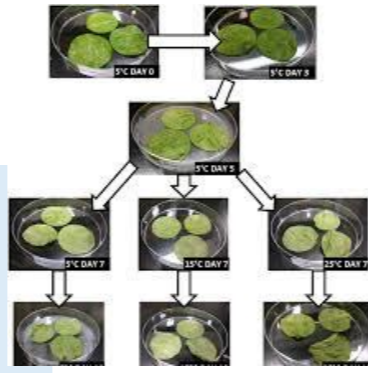


# ISOAGENS PAPER

## Valorisation of Isochrysis galbana (IsoAgens®)

### Characteristics in bioassays

- Growth rate (dry and fresh) increase by 15%
- N-use more efficient by 15%:
  - Km and Vmax changes
  - Higher capacity of Nitrate reductase
- Leaf expansion increases by 20%
- Leaf yellowing rate decreases by 50%
- Net content green pigments: + 20%



### Business proposition IsoAgens®

1. Allows crop-growth at lower levels of fertilization
2. Increases efficiency of fertilizers
3. Increases crop's resistance to stress



### First verifications

- Ornamental and vegetable plants show similar characteristics,
- Grown in pot soil, stone wool, tissue culture medium and aquaponics
- One application to the root zone is active for ca. 12 weeks
- No difference between a homogeneous mix with the rooting medium or a point application in the rooting medium
- Crops tested: maize, wheat, kitchen herbs, Coleus, Schefflera, sugar beet, rape seed, potato, tomato, cucumber during first 4 months of growth period.



### Product proposition IsoAgens®

- No extra handling for user: IsoAgens® is embedded in an already existing carrier
- Biobased
- 100% biodegradable within 1 year
- Biodegradable by whatever composting
- Biodegradation is driving force behind slow release of IsoAgens®



### Present R&D portfolio IsoAgens®

- Anti-stress biopolymer plant label pot plants
- Paper based conditioner cut flowers
- Fertilizer-modulator in biopolymer granules grasslands

Please contact me for business ideas, cooperation projects, feasibility studies

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