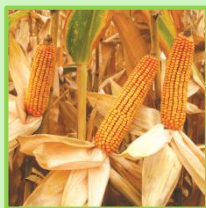




ÚKZÚZ



Central Institute for Supervising and Testing in Agriculture

www.ukzuz.cz



Central Institute for Supervising and Testing in Agriculture (ÚKZÚZ) – *Short introduction*

- Specialised body of state administration, subordinated to the Ministry of Agriculture
- Main responsibilities
 - PPP, fertilizers, feed, soil (fertility + hygiene), seeds, variety testing, vineyard registry, organic farming, hop certification, official controls, laboratories etc.





Placing of micro-organisms on the Czech market

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Status of micro-organisms in the Czech Republic

- **Plant protection products**
(Regulation 1107/2009)
- **Supplementary substances**
(Act on Fertilizers No. 156/1998 Coll.)





Plant protection product or supplementary substance? What to assess?

- Mode of action
- Intended use (label)





Plant protection product or supplementary substance?

- Eliminates pest or disease?

OR

- Improves growth through better nutrition?
- Increases soil fertility?
- Brings natural symbiotic microbes?





Plant protection products

Procedures defined at EU level

- Approval (Annex...)
- Authorisation (member states)





Plant protection products

Currently registered in the Czech Republic

- *Bacillus thuringiensis* ssp. *kurstaki* (ins.)
- *Cydia pomonella* Granulovirus (ins.)
- *Coniothyrium minitans* (fung.)
- *Pythium oligandrum* M1 (fung.)





Supplementary substances

Defined by Czech Act on fertilizers

- National legislation, covers fertilizers, supplementary substances and growing media
- Brings sufficient flexibility

Obligation of registration

- Registration = official procedure with precisely defined rules





Supplementary substances

Supplementary plant substance – definition

- Substance without efficient nutrient content positively influencing growth of plant or quality of yield

Supplementary soil substance – definition

- Substance without efficient nutrient content positively influencing soil fertility and quality (= soil improver)





Supplementary substances

Supplementary *plant* substances - microbes

- Category that can be used for microorganisms directly influencing plant or living in symbiosis with plant
 - Rhizobiales – N – fixation (symbiotic)
 - Mycorrhiza – endo and ectomycorrhiza
 - etc.





Supplementary substances

Supplementary *soil* substances

- Category that can be used for microorganisms influencing plant indirectly, living separately in the soil
 - Freely living N fixators (e.g. Azotobacter)
 - Microbes accelerating decomposition of organic matter or organic pollutants (Bacillus, Pseudomonas...)
 - Photosynthetic bacteria
 - Microbes making phosphorus more available
 - Bacteria of milk fermentation
 - etc.





Supplementary substances

Procedure for national registration

- Application
- Sample, draft of label, data on efficacy
- Evaluation of data
- Final protocol (characterisation of product)
- Decision on registration (valid for 5 years, can be prolonged)





Supplementary substances

Efficacy or relevance of product

- **Scientific studies**
- **Results of trials**
- **Reports, reviews...**

- **Own field trial can be carried out if necessary**





Advantages of national system of registration

- **Flexibility** – can be used for vast majority of products
- **Speed of process** – if all required data available – max. 6 month, can be less
- **Low cost of procedure** – 110 EUR official fee plus cost of analysis (if needed)





Future prospects

- Preparation of a new EU Regulation covering all fertilizers and similar materials
- Micro-organisms covered by a new category „Biostimulants“?
- Excessive bureaucratic burden for microorganisms shall be avoided (list of basic = „traditional“ microorganisms?)



**Placing of micro-organisms
on the Czech market**



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ISO 9001: 2008

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Thank you for your attention!

Questions?

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