

# Plant Protection Products Approvals

## Bent Leonhard

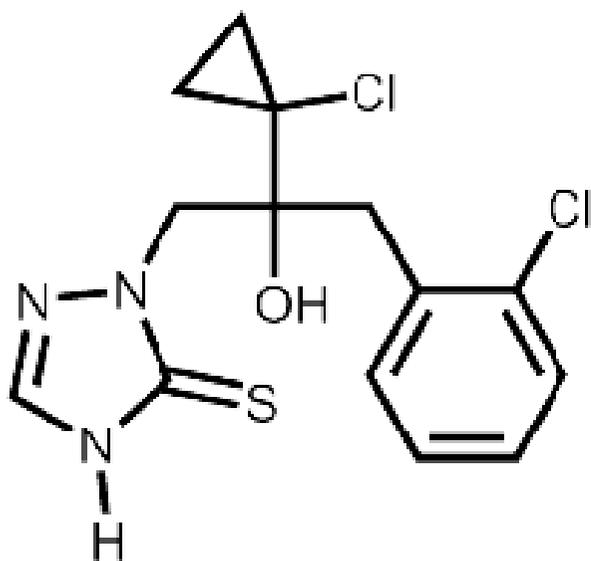


- All approvals and registrations are based on EU regulation 1107/2009

# Plant Protection Products Approvals



## Approval of active substance



Positive list (Annex I)  
EU RMS (Rapporteur Member State)

New criteria

”Normal” active substance

Low risk active substance

Basic substance

# Plant Protection Products Approvals



- More regulation in the future
- Safeners og synergists
  - Separate regulation (december 2014, 5 years of adaptation)
- Co-formulants
  - Negative list (Annex III) (from June 2016)
- Adjuvants
  - Waiting for new approval criteria
  - Separate regulation (from ??)



## Sprede-klæbemiddel

<p><b>Dash®</b> Analyse: Midlet indeholder let aromatisk solventnafta Emulsions koncentrat (EC)</p> <p><b>ADVARSEL</b> For at nedsætte risikoen for mennesker og miljø skal brugsanvisningen følges nøje.</p> <p>Irriterer huden Risiko for alvorlige øjenskader Dampe kan give sløvhed og svimmelhed Skadelig for organismer der lever i vand</p> <p>Vær opmærksom på, at Arbejdstilsynet har regler for anvendelsen. Læs nærmere i den eventuelt lovpligtige leverandørbrugsanvisning samt i Arbejdstilsynets informationsmateriale om bekæmpelsesmidler.</p> <p>Der må ikke spises, drikkes eller ryges under brugen Undgå kontakt med huden Kommer stoffet i øjnene, skylles straks med grundigt med vand og læge kontaktes. Brug særligt arbejdstøj, egnede beskyttelseshandsker og -briller/ansigtsskærm. Ved indtagelse kontakt omgående læge og vis denne beholder eller etiket. Overtrædelse af nedenstående særligt fremhævede forskrifter kan medføre straf. Opbevares utilgængeligt for børn Må ikke opbevares sammen med fødevarer, drikkevarer og foderstoffer.</p> <p><b>Indhold: 5 Liter e</b></p> <p><b>Producent:</b> BASF SE D-67056 Ludwigshafen Tyskland</p> <p><b>Importør:</b> BASF A/S Ved Stadsgraven 15 DK-2300 København S Tlf.: 32 66 07 00 www.agro.basf.dk</p>	<p><b>Xi</b></p>  <p><b>Lokalirriterende</b></p> <p>Produktions dato: Se emballagen Batch No.: Se emballagen</p> <p><b>Nødsituation:</b> Telefon: 0049 180 2273 112</p>
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® = reg. varemærke BASF

81052780 DK 1100-Denmark

# Plant Protection Products Approvals



## Normal approval

- Try to get the Chemical Companies to put the highest possible number of minor crops and pests on the label. We have to be lobbyists.
- The Companies sometimes forget to put a crop or a pest on the label
- So, help the Companies not to forget



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# Plant Protection Products Approvals



## Minor use

- No demand for efficacy data
- No demand for selectivity data
- Residue data is still required (only edible plants)
- Minor use approvals can come on the label



# Plant Protection Products Approvals



## ○ Mutual recognition

Can be applied when the authorisation was granted by

- a Member State which belongs to the same zone
- a Member State which belongs to a different zone
- a Member State for use in greenhouses, seed treatment etc.

# Plant Protection Products Approvals



- Approvals in the Northern zone
  - Zone evaluation
    - Zone Rapporteur Member State (ZRMS)
    - Co-operation in the zone
  - Evaluations time (ZRMS)
    - One Year (+ 6 Month)
  - Other countries in the zone
    - 120 Days for national evaluation



# Plant Protection Products Approvals



- Challenges in Denmark



*Specific Danish demands concerning:*

- Groundwater
  - No leaching of active substances and metabolites (even harmless) is accepted.
- Persistence in soil
  - The half-life of the active substance and relevant metabolites must not exceed 180 days, but actually it is 90 days for minor crop.
- Minor use applications
  - If there is an existing normal authorisations and no minor use authorisations for the applicate purpose the Danish EPA will reject the application unless we can verify that the product can solve a special problems like resistance management etc.

# Plant Protection Products Approvals



- Challenges in Denmark



## *New Danish pesticide strategy legislation*

- The Danish EPA has made an environmental and health impact index.
- The impact on environmental and health has to be reduced with 40% at the end of 2015
- New taxes on pesticides. Highest taxes on the most harmful active substances.

## *Spray drift of pesticides*

- The Danish EPA refuse to extend approvals (changing spraydistance to water etc.) if growers and farmers use methods like:
  - low-drift nozzles
  - tunnel sprayer
  - etc.

# Plant Protection Products Approvals



- **How can ENA support the approval work in the member countries?**
- Organize a list of approved (registered) products containing all registered products in the different countries. This will have to be updated every year! At least.
- Every country can make a 'wishing list' of products they don't have - but would like to use. Also for seed treatment.
- Every country must identify the conditions for making national applications, and identify the offices (professionals) which can make the application work. And also a GEP Research Institute that can deliver the needed data.
- Every country must identify the organisation which will finance expenses for paying the fee for national applications and research and application work.
- EU Commodity Expert Group can support the representative of the different national offices making the application work by exchange of data used in other countries.
- Needed GEP research for approvals of new products for all or a group of members of ENA could be financed and conducted in collaboration and organized by ENA

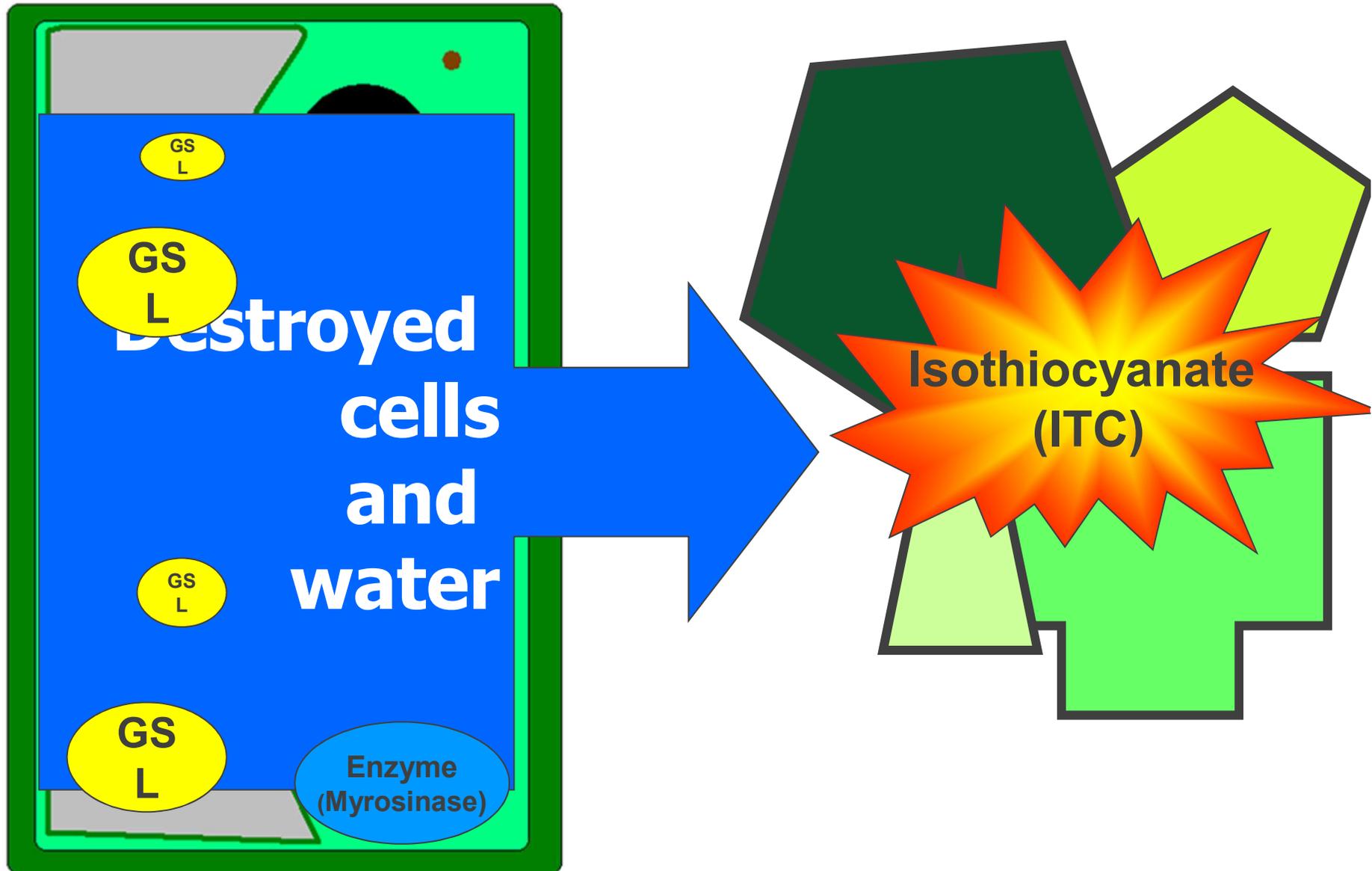


## **BIOFUMIGATION – A biological method to fight soilborne diseases**





# How does Biofumigation work?



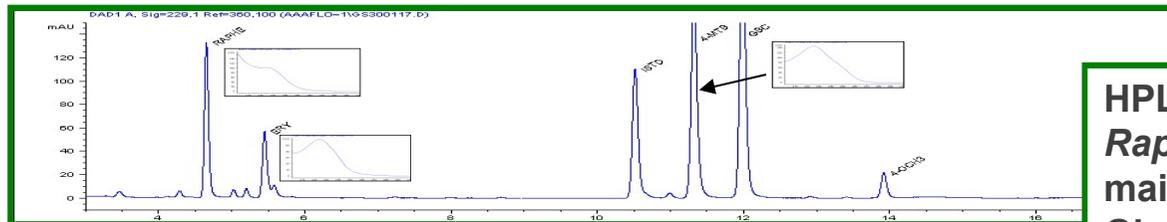


## II. Species and varieties

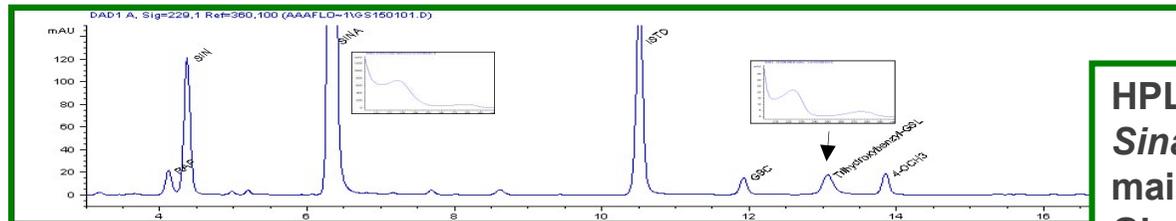


# GSL tests med HPLC

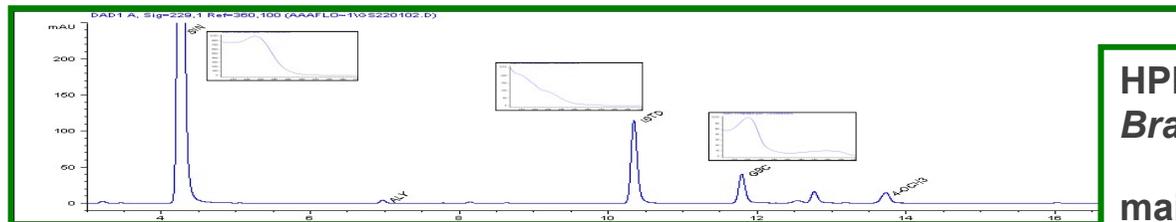
High Pressure Liquid Chromatograph



HPLC-Chromatogramm of *Raphanus sativus*, leaves/stems  
main GSL: Glucoraphasatin,  
Glucoraphenin, Glucoerysolin

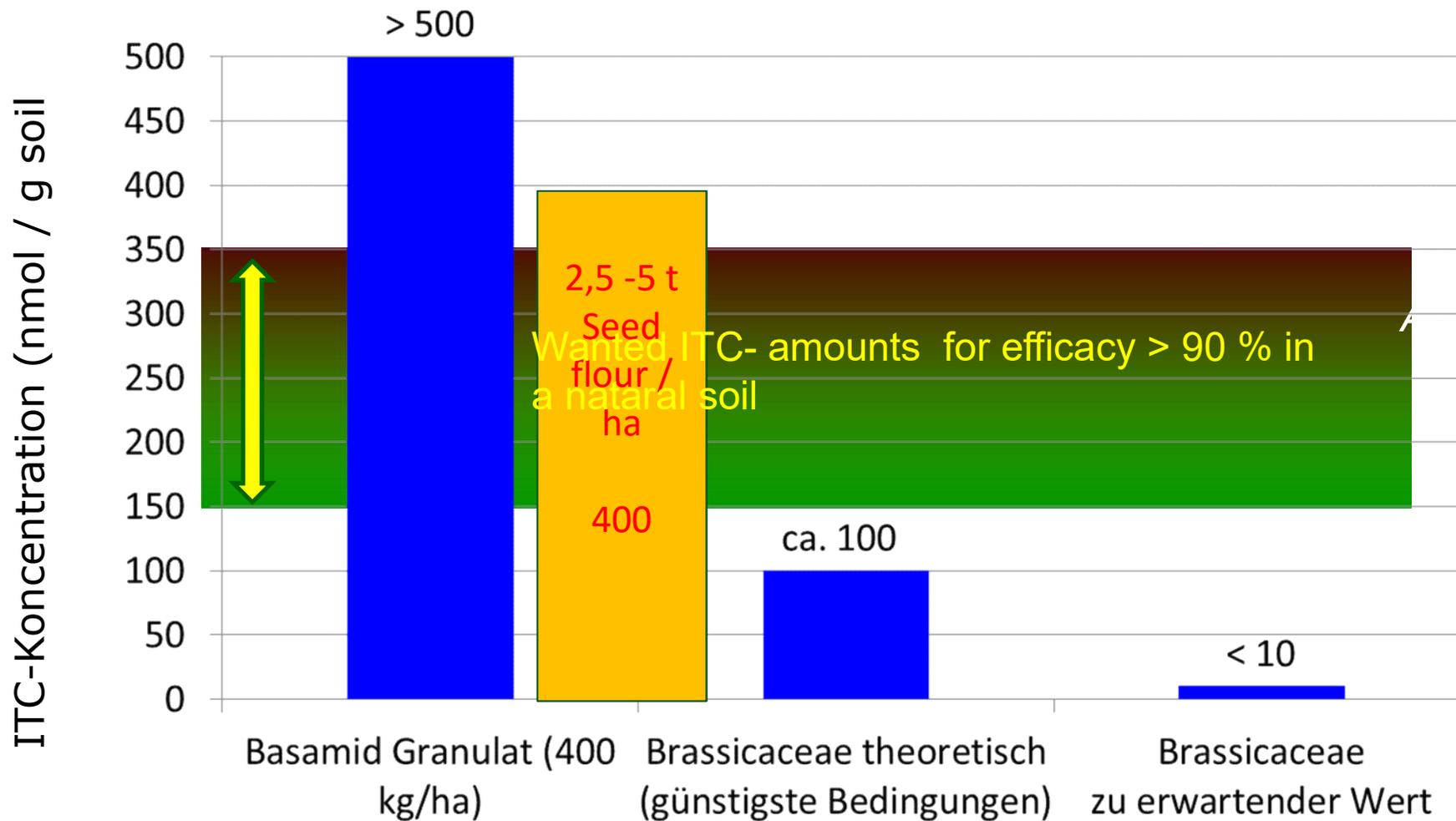


HPLC-Chromatogramm of *Sinapis alba*, leaves/stems  
main GSL: Sinalbin,  
Glucotropolin



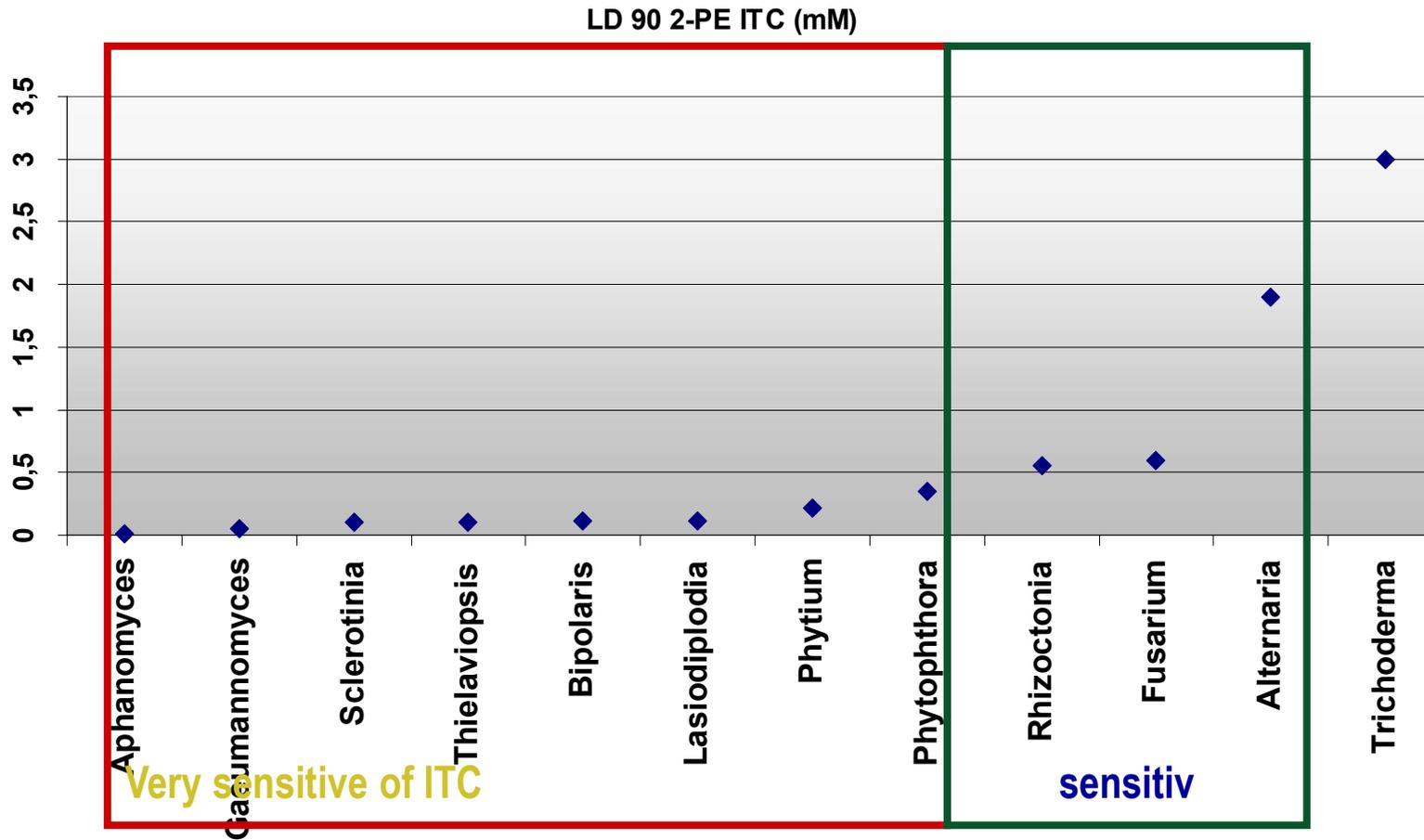
HPLC-Chromatogramm of *Brassica juncea*, leaves/stems  
main GSL: **Sinigrin**

# How to get the needed level of ITC in the soil.



# Variation in toxicity of 2-Pheny ITC

Smith and Kirkegaard, 2002, modified





Grinding seeds to oil and powder  
(mustardflour)





