



SVII, J. Mb. Leguminosac.

a new biological seed treatment product against pea diseases

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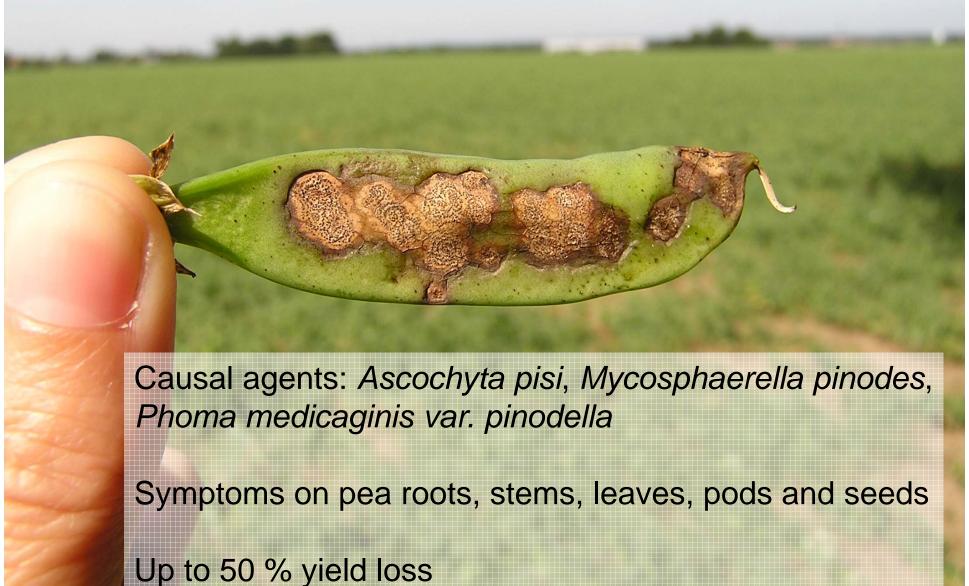
MASE Laboratory
Sweden

15 9. Lisum sativum L. Bredy-Erbfe

- * Former Findus AB
- ** Lantmannen-BioAgri



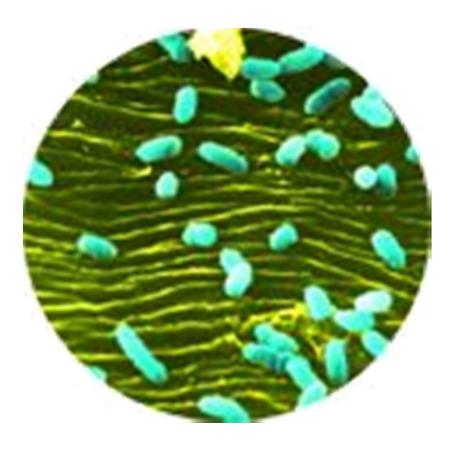
Ascochyta pea blight







P. chlororaphis MA342 – a natural soil bacterium

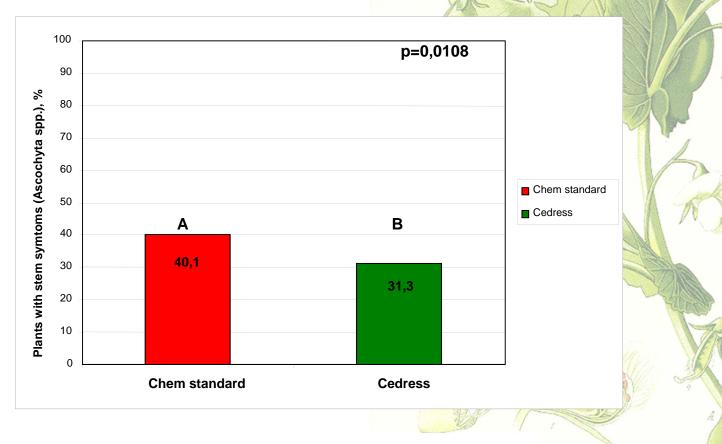


- The active bacterial isolate in the biological seed treatment products Cedomon [®], Cerall [®]and Cedress[™], marketed by Lantmannen-BioAgri.
- Isolated and selected by researchers at SLU in 1988, patented.
- EU Annex I approved in 2004 (Lantmannen-BioAgri).
- Potential in many crops. Complex MoA, durable.



2007 Large scale field trials Ascochyta stem symptoms

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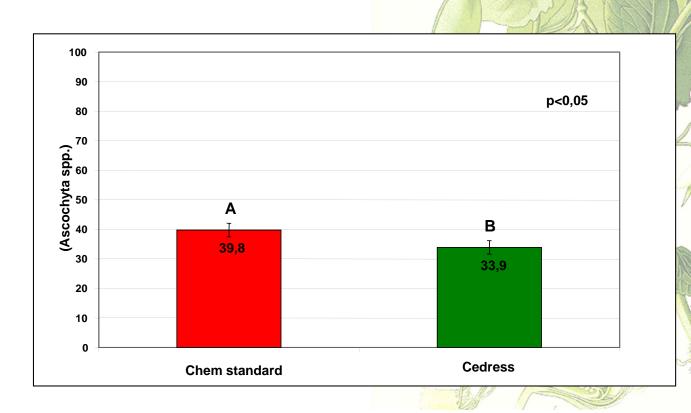




2008 Large scale field trials Ascochyta stem symptoms

XVII, J. Mb. Leguminosae.

Bredj-Grbfe.

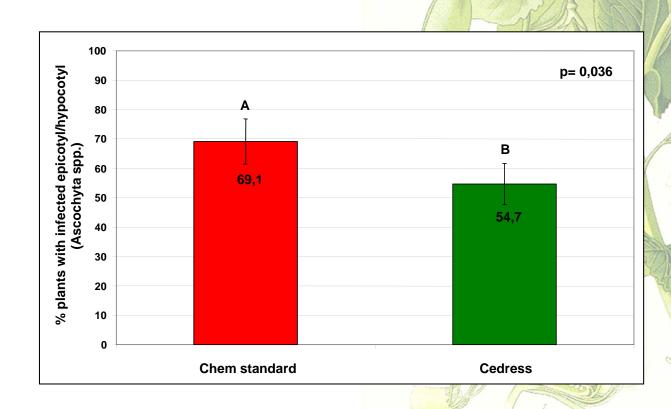


Mean figures from 12 commercial fields



2009 Large scale field trials Ascochyta stem symptoms

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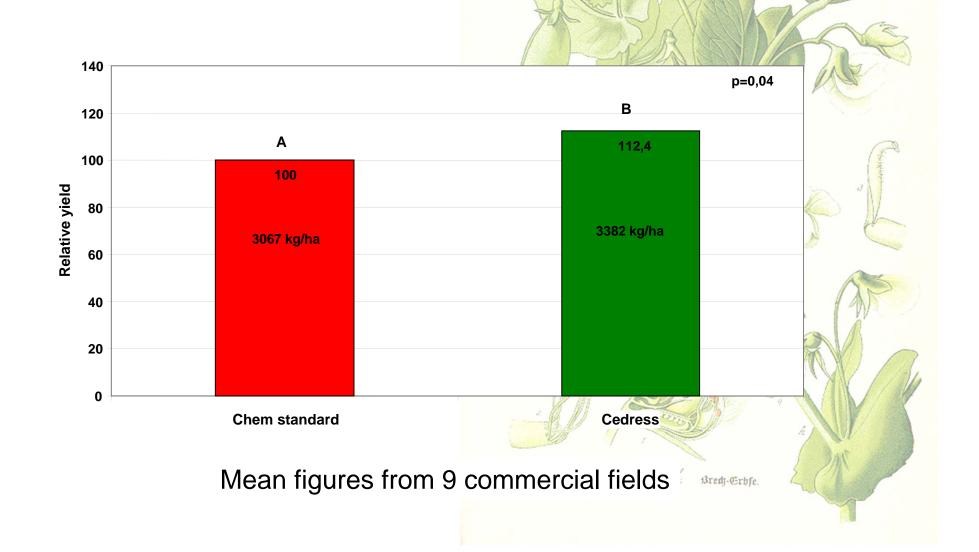


Mean figures from 2 commercial fields



2007 Large scale field trials Yield

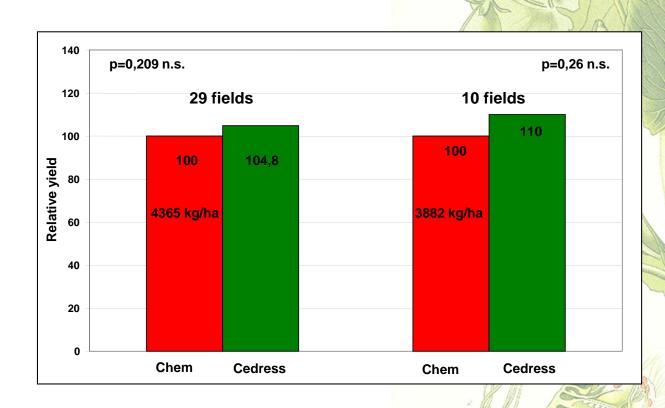
SVII, 3. NO. Legaminosae.





2008 Large scale field trials Yield

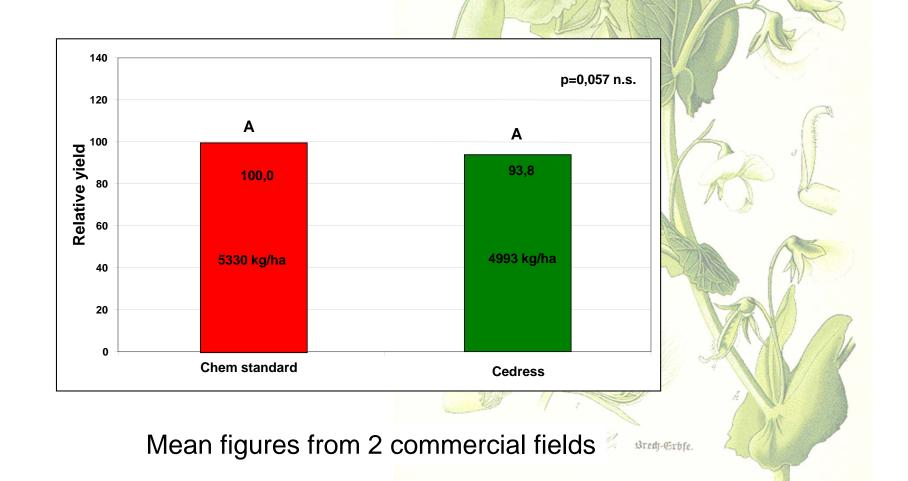
SVII, S. Mb. Leguminosae.



Mean figures from 29 randomly selected commercial fields (left), out of which 10 commercial fields (right) had *Aphanomyces euteiches* root rot infections.



2009 Large scale field trials Yield



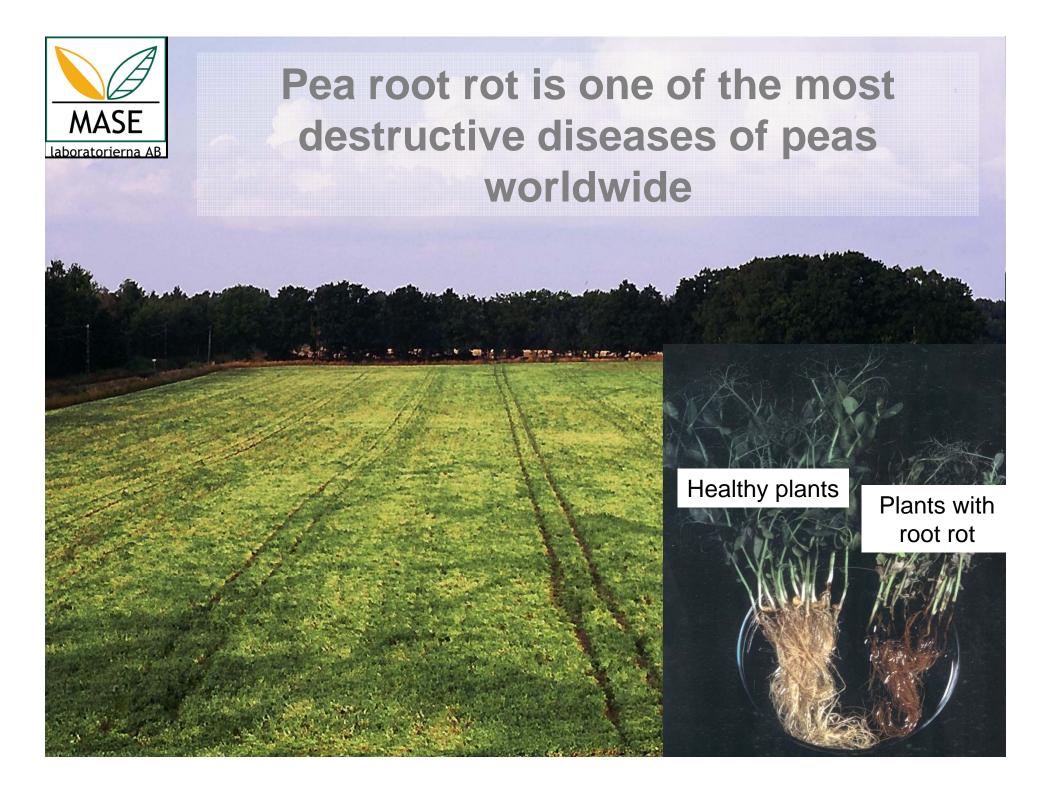
SVII, 3. NO. Legaminosae.



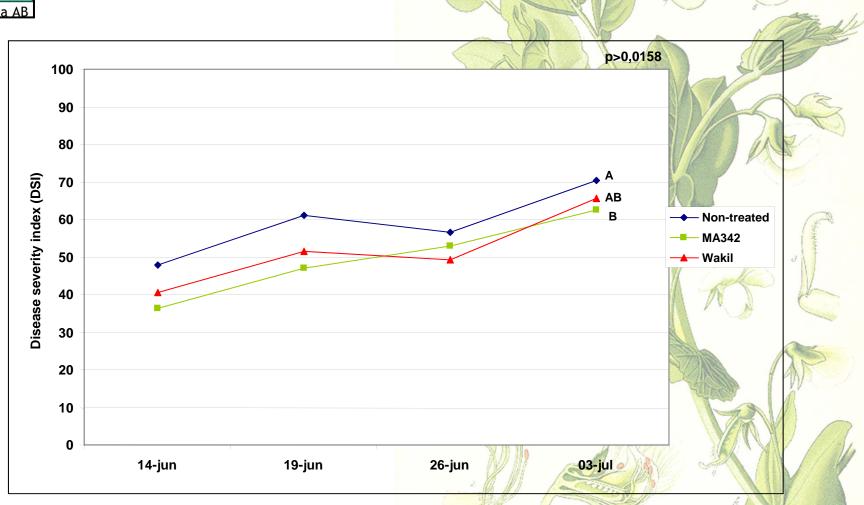
Cedress - Modern seed treatment for peas

Summary large scale trials on 460 ha, 2007 to 2009

	Chemical standard	Cedress
Plant emergence	100	102
Infected epi-/hypocotyl	100	80
Leaf spots	100	71
Yield	100	106



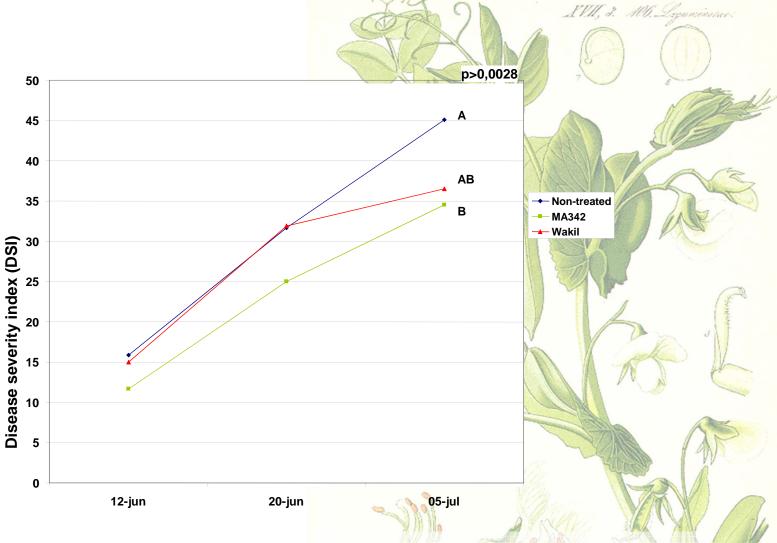




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Seed treatment with bacterial isolate MA342 gave a significantly lower disease severity index (Aphanomyces root rot) than non-treated.





Seed treatment with bacterial isolate MA342 repeatedly gave a significantly lower disease severity index (Aphanomyces root rot) than non-treated.



MASE Laboratory

More microbial products in pipe-line:

- Control of seed-borne, soil-borne and storage diseases in vegetables
- Plant growth promotion in field vegetables, greenhouse vegetables and forest nurseries

MASE Laboratory offers research and development services.

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Thank you for your attention!

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