

US EPA ARCHIVE DOCUMENT



NAFTA Technical Working Group on Pesticides
Grupo de Trabajo Técnico del TLCAN sobre Plaguicidas
Le groupe de travail technique de l'ALENA sur les pesticides

Biopesticides Registration Improvement Course

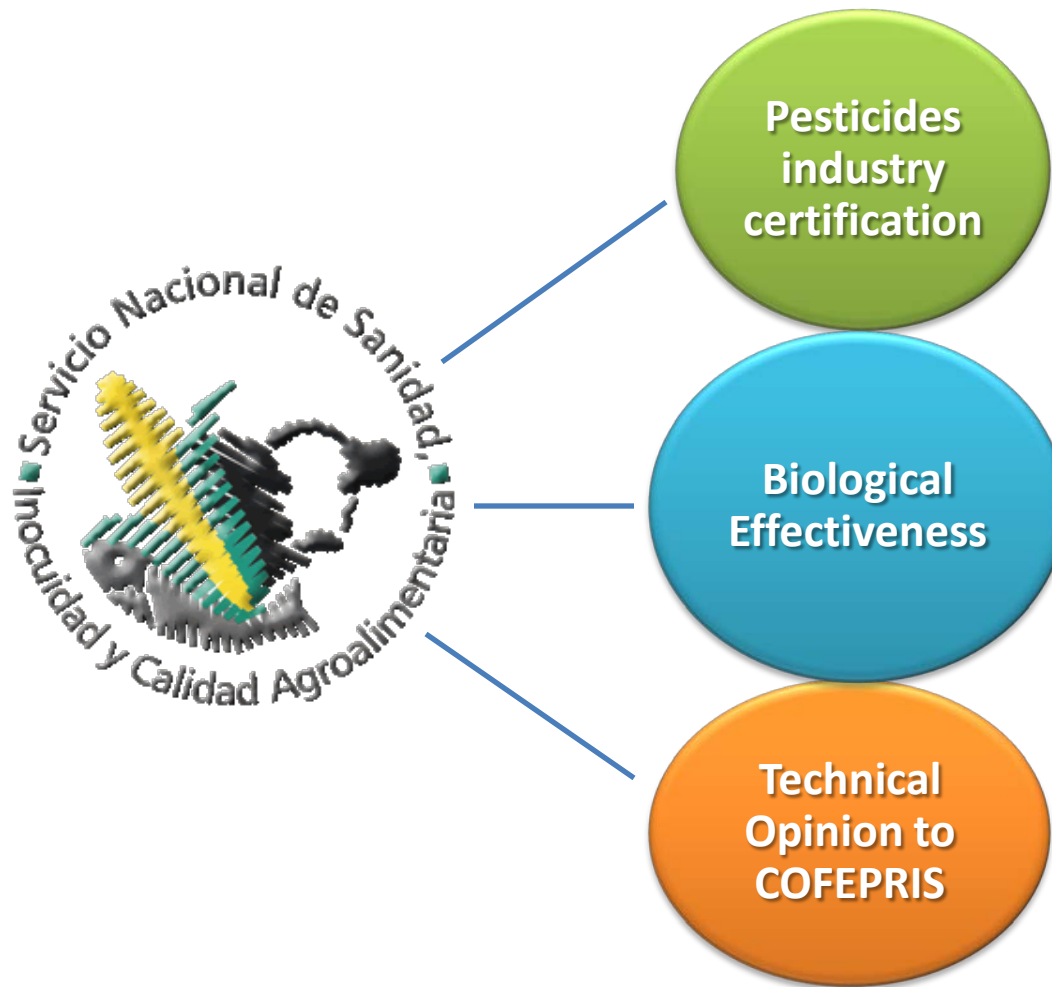
Biological Effectiveness of Biopesticides

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México – SAGARPA - SENASICA



BRIC - CCRB - CAAB



- Plant Health Federal Law



BRIC – CCRB – CAHB

LEGAL FRAMEWORK

- **Ley Federal de Sanidad Vegetal / Plant Health Federal Law**
(DOF, 24/04/2007)

Plaguicida: Insumo fitosanitario destinado a prevenir, repeler, combatir y destruir a los organismos biológicos nocivos a los vegetales, sus productos o subproductos;

Pesticide: phytosanitary input developed to prevent, avoid, eliminate and destroy biological harmful organisms to plants, their products or byproducts.



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- **NOM-032-FITO-1995**

“Por la que se establecen los requisitos y especificaciones fitosanitarios para la realización de estudios de efectividad biológica de plaguicidas agrícolas y su dictamen técnico”.

Establishes requirements and phytosanitary specifications to carryout biological efficacy trials for agricultural pesticides and their biological efficacy technical report



Biological effectiveness trial notification

Requeriment	Conventional pesticides		Biopesticides	
	New	Modification	New	Modification
Trial notification format	√	√	√	√
Study's Protocol	√	√	√	√
Secure data sheet (SDS)	√	NA	√	NA
Action spectrum	√	NA	√	NA
Mechanism of action	Optional	Optional	Optional	Optional
Letter commitment of destruction of harvest when don't have a MRL	√	√	Exent	Exent

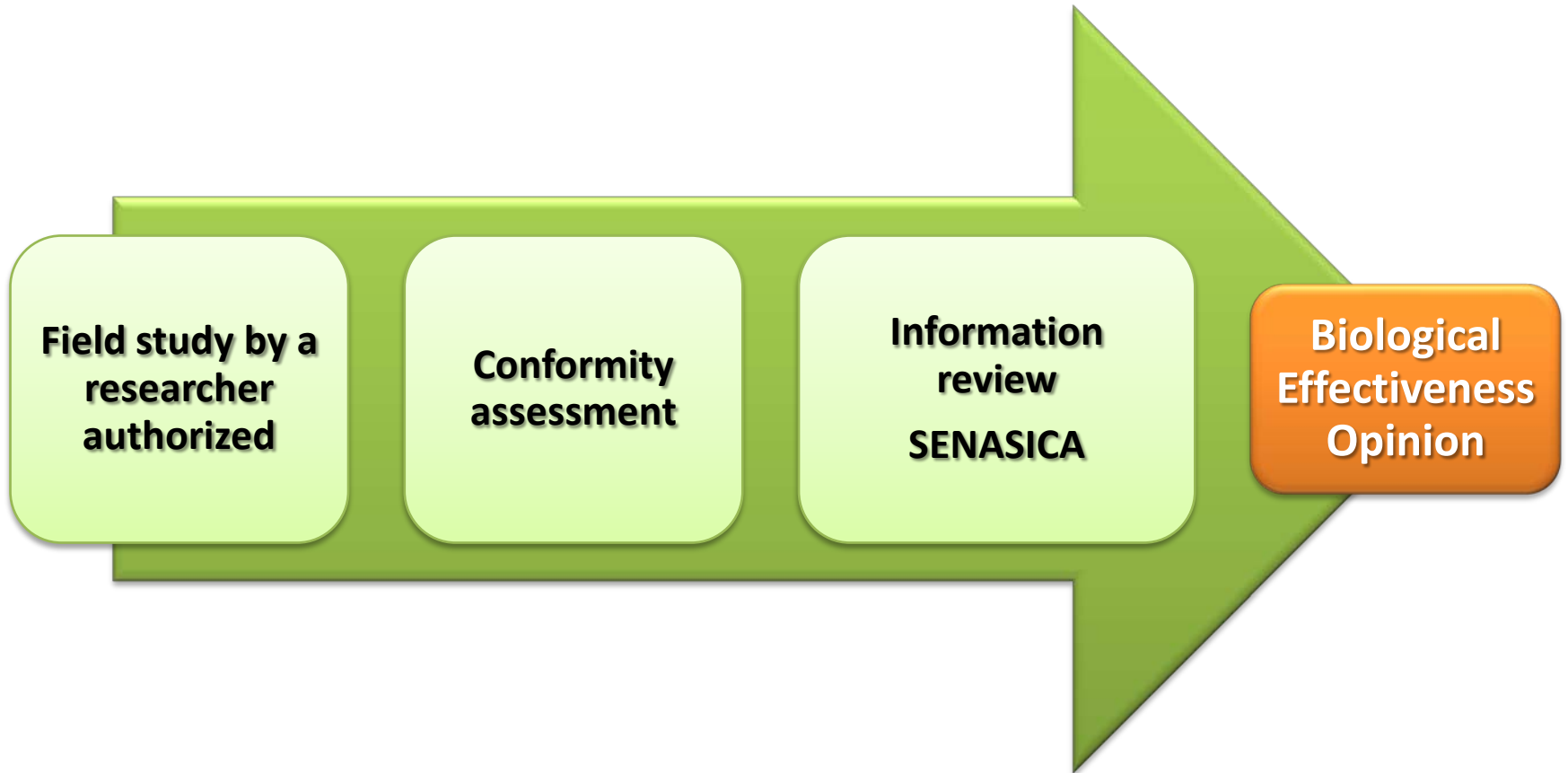


Biological Effectiveness Technical Application

- Biological Effectiveness Application
- Study Report
- Conformity assessment report copy
- Label project
- Supporting of payment of rights



BIOLOGICAL EFFECTIVENESS INFORMATION

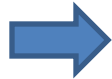




Company



Toxicological, Ecotoxicological
and Security Information

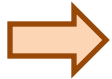


Precautions of use and
storage information



Label

Biological Effectiveness



Commodities, pest, dosage
and application methods

MRL



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Advances on botanical and microbial pesticides (Biopesticides)

Types of pesticide	Conventional pesticides	Biopesticides
Insecticides	85%	Values may be lower but it's necessary to justify the convenience
Fungicides	80%	
Bactericides	80%	
Herbicides	87.5%	
Miticide	85%	



Justification of the convenience

- Low impact on beneficial insects
- Establishment of the Control Agent
- No residues
- Broad spectrum control *Beauveria*, *Metarhizium* and *Verticillium*, others.
- Persistence (virus, protozoan, others)
- Economic threshold
- Crop value



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Advances in biopesticides

- Botanical, microbial and miscellaneous pesticides registration Workshop (September, 26th, 2008, México, DF.)
- Specific technical group on biological effectiveness assessment
- Time shorter than conventional pesticides
- SENASICA can perform conformity assessments



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Summary

- The SENASICA'S legal framework does not include “biopesticides”
- There is a specific technical group for the Biological effectiveness evaluation
- When the effectiveness is lower than the standards, the applicants can include a justification