

BIOMITICIDE OF BOTANICAL ORIGIN AS A KEY TOOL IN IPM: A CASE STUDY

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Broad-spectrum miticide with low to no risk of resistances and no pre-harvest interval

Composition:

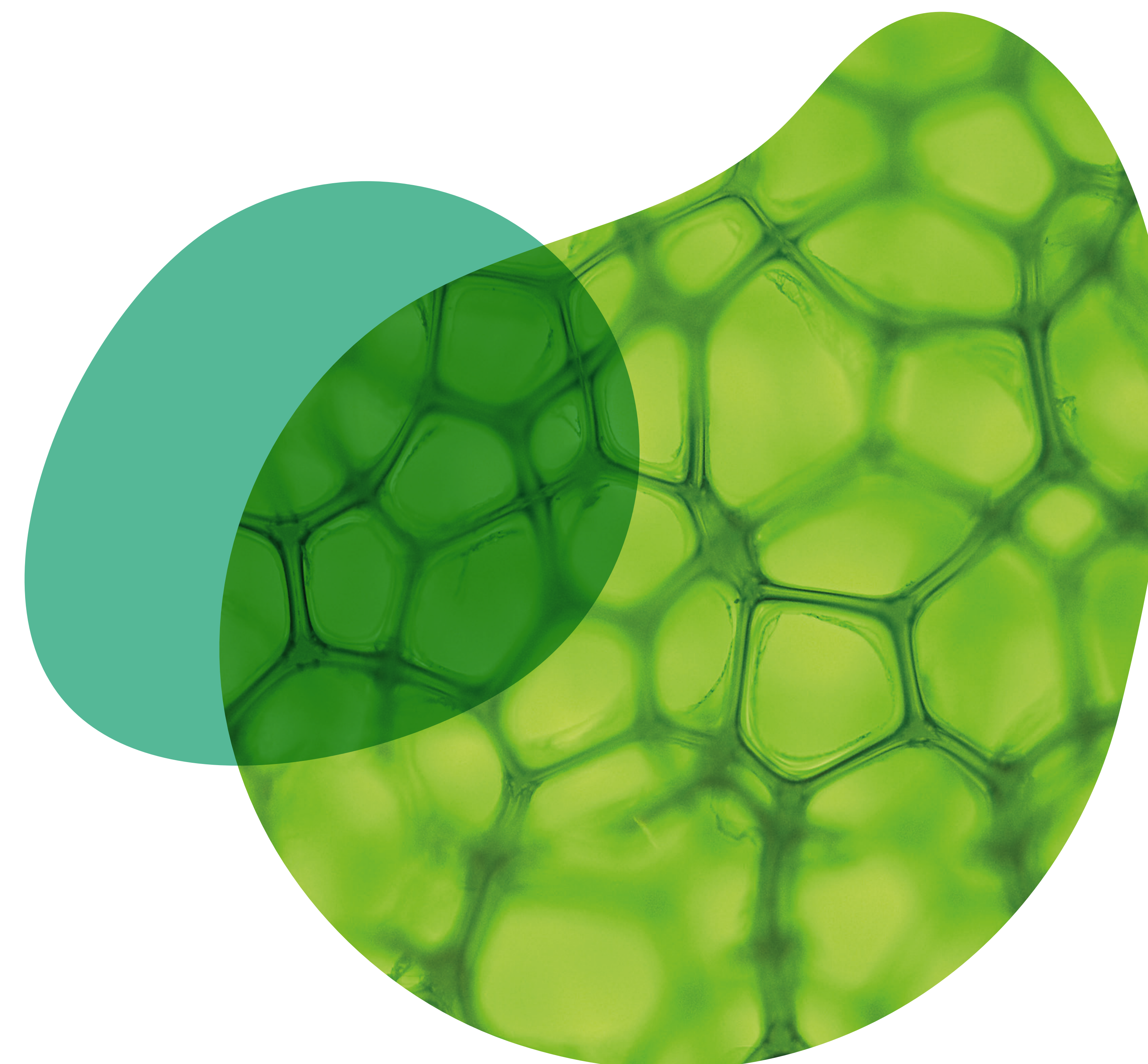
● Active Ingredients 30%

- ✓ Secondary metabolites obtained from selected plants through advanced extraction methods 15%
- ✓ Bioactive monoterpene fraction 15%

● Organic Co-formulants 70%

- ✓ Emulsifiers (plant oil)
- ✓ Technology based on specific adjuvants
- ✓ Water

Formulated with inert and active natural ingredients that may be safely applied during harvest, with no risks and no unauthorized residues.



MITÖ® VS. OTHER MITICIDES

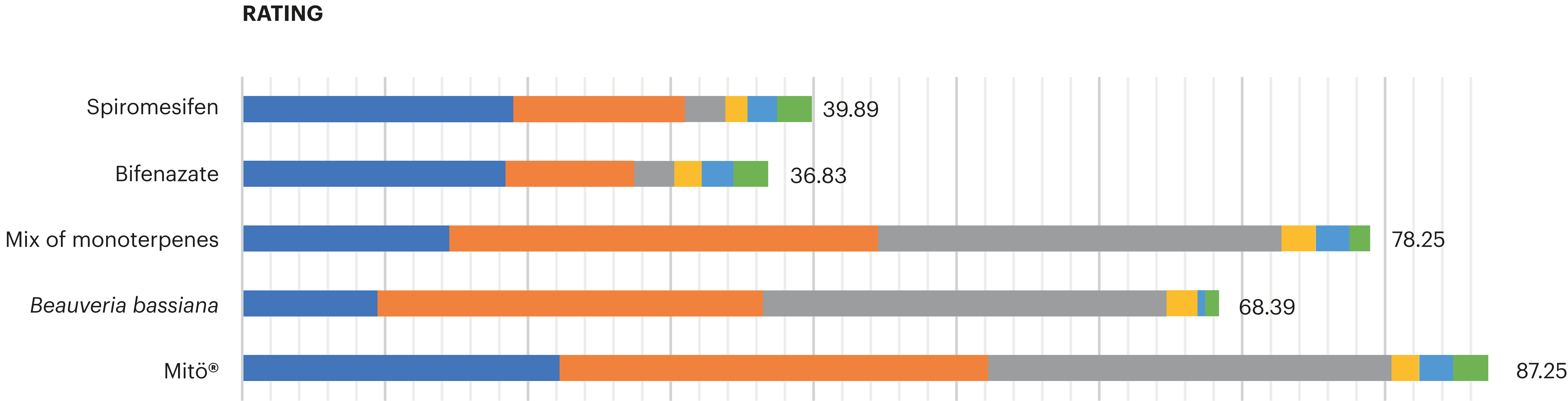
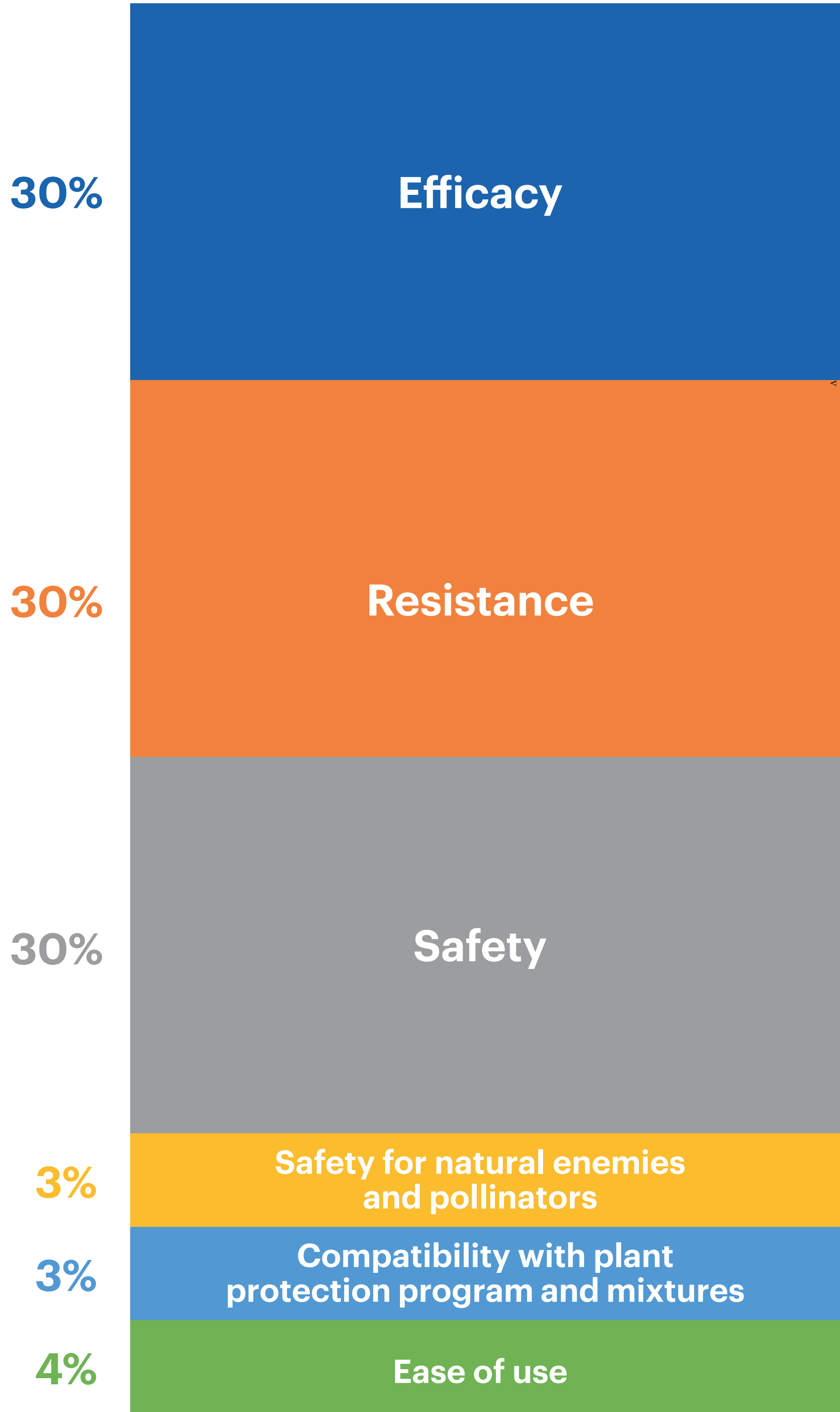
				Importance: 1 Low / 10 High			Rating: 1 Low / 10 High				
							Competitors				
Weighting	Individual Weighting	CONCEPT	Mitö®	Consultant Grower		Average	Mitö®	Beauveria bassiana	Mix of monoterpenes	Bifenazate	Spiromesifen
30%	6.0%	Efficacy	Direct effect: Speed of action	7	10	8.5	8	1	7	7	5
	2.0%	Efficacy	Indirect effect	7	6	6.5	9	5	7	5	6
	12.0%	Efficacy	Overall efficacy (direct + indirect)	10	10	10	8	4	5	7	6
	2.0%	Efficacy	Efficacy against all types of mite families	9	8	8.5	10	4	5	5	10
	2.0%	Efficacy	Replicability of results	9	8	8.5	8	4	6	7	8
	6.0%	Efficacy	Half-life	9	9	9	8	4	4	7	10
30%	30.0%	Resistance	Low or no generation of resistances	10	10	10	10	9	10	3	4
30%	25.0%	Safety	No residues (MRL) and no pre-harvest interval	10	10	10	10	10	10	1	1
	3.0%	Safety	No re-entry interval	6	7	6.5	10	10	10	1	1
	2.0%	Safety	Safety for the applicator	5	8	6.5	10	10	10	1	1
3%	1.5%	Safety for auxiliary fauna and pollinators	Management with auxiliary fauna	9	7	8	6	10	10	6	3
	1.5%	Safety for auxiliary fauna and pollinators	Application compatible with pollinators	8	8	8	10	8	10	10	10
4%	1.5%	Compatibility with program	Possibility to use alone or combined with chemical plant protection products	10	7	8.5	9	3	9	9	9
	1.5%	Compatibility with mixtures	Compatible with main miticides on the market	10	8	9	9	1	9	8	7
4%	1.0%	Ease of use	Number of applications needed to reach M> 90%	6	9	7.5	7	3	4	9	9
	1.0%	Ease of use	No need to mix with other products (ovicides)	7	9	8	8	2	6	8	8
	1.0%	Ease of use	No need for adjuvants or oils	6	8	7	9	5	1	7	7
	0.5%	Ease of use	Wide pH range	6	9	7.5	9	2	6	7	7
	0.5%	Ease of use	Formulation type	6	8	7	10	5	10	10	10

87.2568.3978.9536.8339.89

Perception and acceptance by large distributors and end consumers

RATING

MITÖ® VS. OTHER MITICIDES



COMING SOON



- USA, October 2023
- BRAZIL, June 2024
- CHILE, July 2025
- ARGENTINA, July 2025
- MEXICO, February 2024
- PERU, February 2025
- COLOMBIA, August 2024
- ECUADOR, August 2024

BENEFITS



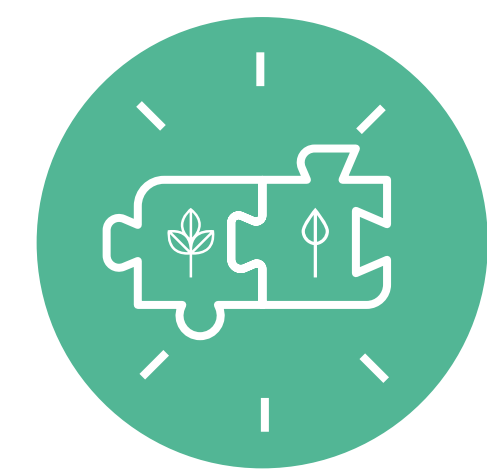
High efficacy, similar to synthetic chemicals.



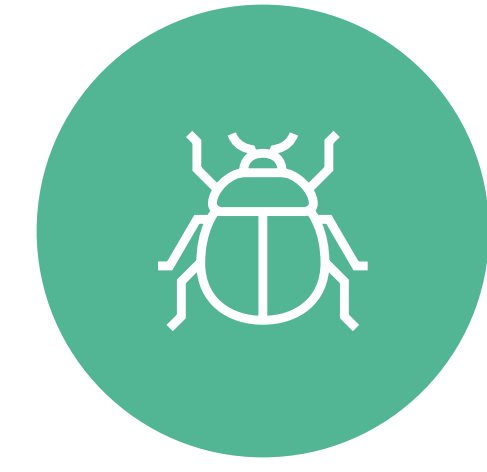
No pre-harvest or re-entry interval.



Free of residues.



Compatible with other chemical solutions.



Broad-spectrum biomiticide.



No risk of resistance*. Unlimited number of applications.

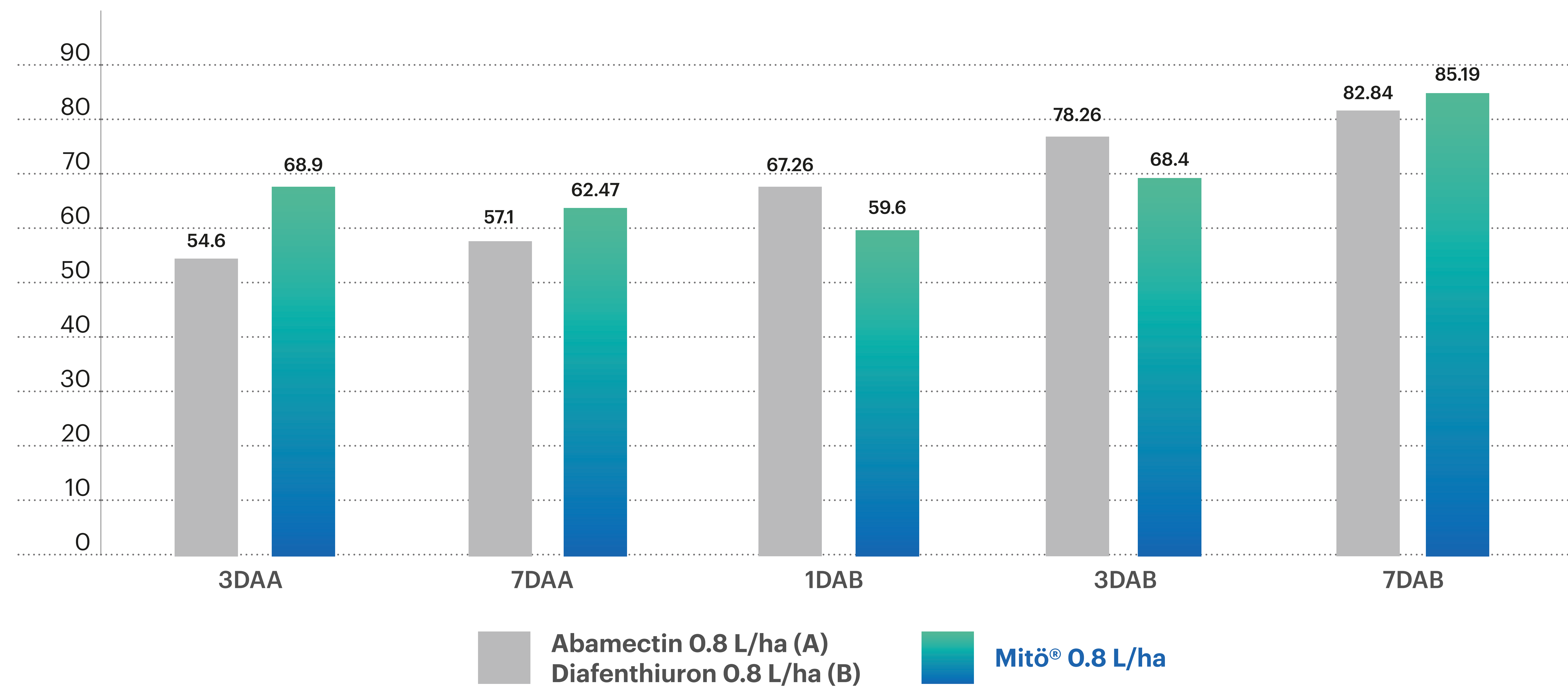
*Over 360 reports have been filed on pest resistance to synthetic solutions.
Source: Arthropod Pesticide Resistance Database.

TRIALS

Higher efficacy compared to other biomitocides.
Similar efficacy compared to synthetic mitocides.



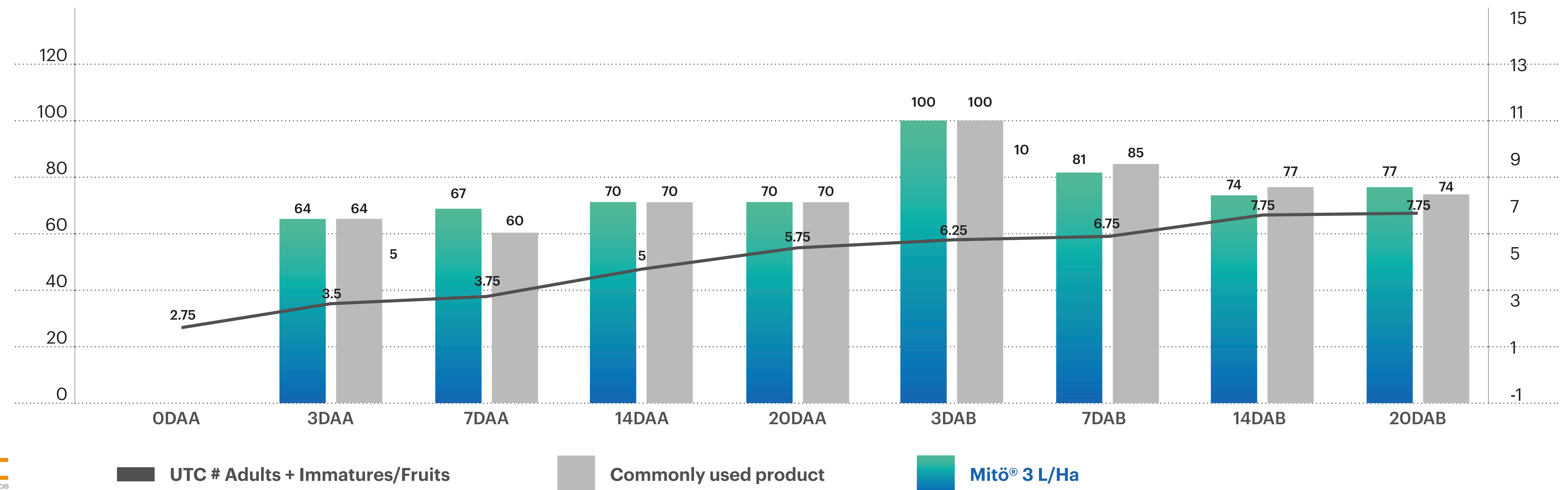
Effectiveness against two spotted mites (*Tetranychus urticae*) in cotton crops.
Aerial application. Primavera do Leste. Mato Grosso, Brazil. May 2021



TRIALS

Higher efficacy compared to other biomitocides.
Similar efficacy compared to synthetic mitocides.

Effectiveness (Henderson & Tilton) against mites in citrus trees.



GENERAL INFORMATION

- Broad-spectrum biomiticide.
- 2 active ingredients of plant origin:
 - 1. Complete plant extract.
 - 2. Bioactive monoterpene fraction.
- Up to 85% efficacy.
- Mortality by direct contact, antifeedant effect, inhibition of oviposition. Repellency.
- Undergoing registration in the USA, Mexico, Brazil, Chile and Argentina.

TARGETS

- *Two spotted mites (Tetranychus urticae)*
- *Red spider mites (Eutetranychus sp)*
- *European red mites (Panonychus ulmi)*
- *Citrus red mites (Panonychus citri)*
- *Avocado red mites (Oligonychus sp)*
- *False red mites (Brevipalpus chilensis)*
- *Citrus rust mites (Phyllocoptruta oleivora)*
- *Tomato russet mites (Aculops lycopersici (Vasates))*
- *Broad mites (Polyphagotarsonemus latus)*

CROPS

VEGETABLES	Tomato Eggplant Pepper Cucumber Melon Zucchini
FRUIT TREES	Apple Kiwifruits Strawberry Grape Orange Tangerine
ROW CROPS	Soybean Beans Cotton Corn
CUT FLOWERS	Roses Carnations

