



Xivana[®]
Oomycete Fungicide



IR-4 Update





Introduction to Xivana



- **Submission:** recent, to US EPA and Canada PMRA in May 2022
- **Launch:** 2025 (depending on regulatory approval)
- **Active Ingredient:** Fluoxapiprolin
- **Mode of Action:** Oxysterol Binding Protein Inhibitor (OSBPI), FRAC Group 49

- **Formulation:** 20 SC (20 g/liter)
- **Rate:** Excellent preventive and curative control at 20 g/Ha (13.7 oz/A)
- **Targets:** Downy mildews and Phytophthora (not effective on *Pythium* spp.)
- **Submitted crops:** Brassica (5-16), Bulb (3-07), Cucurbit (9), Fruiting (8-10), Grape subgroup (13-07F), Leaf petiole (22B), Leafy vegetables (4-16), Potato subgroup (1C)





Crops and Diseases



Uses in the initial submission by Bayer

// Cucurbit	Downy mildew	(<i>Pseudoperonospora cubensis</i>)
// Leafy	Downy mildew	(<i>Bremia</i> and <i>Peronospora</i> spp.)
// Bulb	Downy mildew	(<i>Peronospora destructor</i>)
// Brassica	Downy mildew	(<i>P. parasitica</i> subsp. <i>brassicae</i>)
// Grape	Downy mildew	(<i>Plasmopara viticola</i>)
// Potato	Late blight	(<i>Phytophthora infestans</i>)
// Fruiting	Late blight	(<i>Phytophthora infestans</i>)
// Cucurbit	Phytophthora blight	(<i>Phytophthora capsici</i>)
// Fruiting	Phytophthora blight	(<i>Phytophthora capsici</i>)

IR-4 (in progress)

// Ginseng	Phytophthora leaf blight and root rot	(<i>Phytophthora cactorum</i>)
// Basil	Downy mildew	(<i>Peronospora belbahrii</i>)
// Hops	Downy mildew	(<i>Pseudoperonospora humuli</i>)

Field trial results:

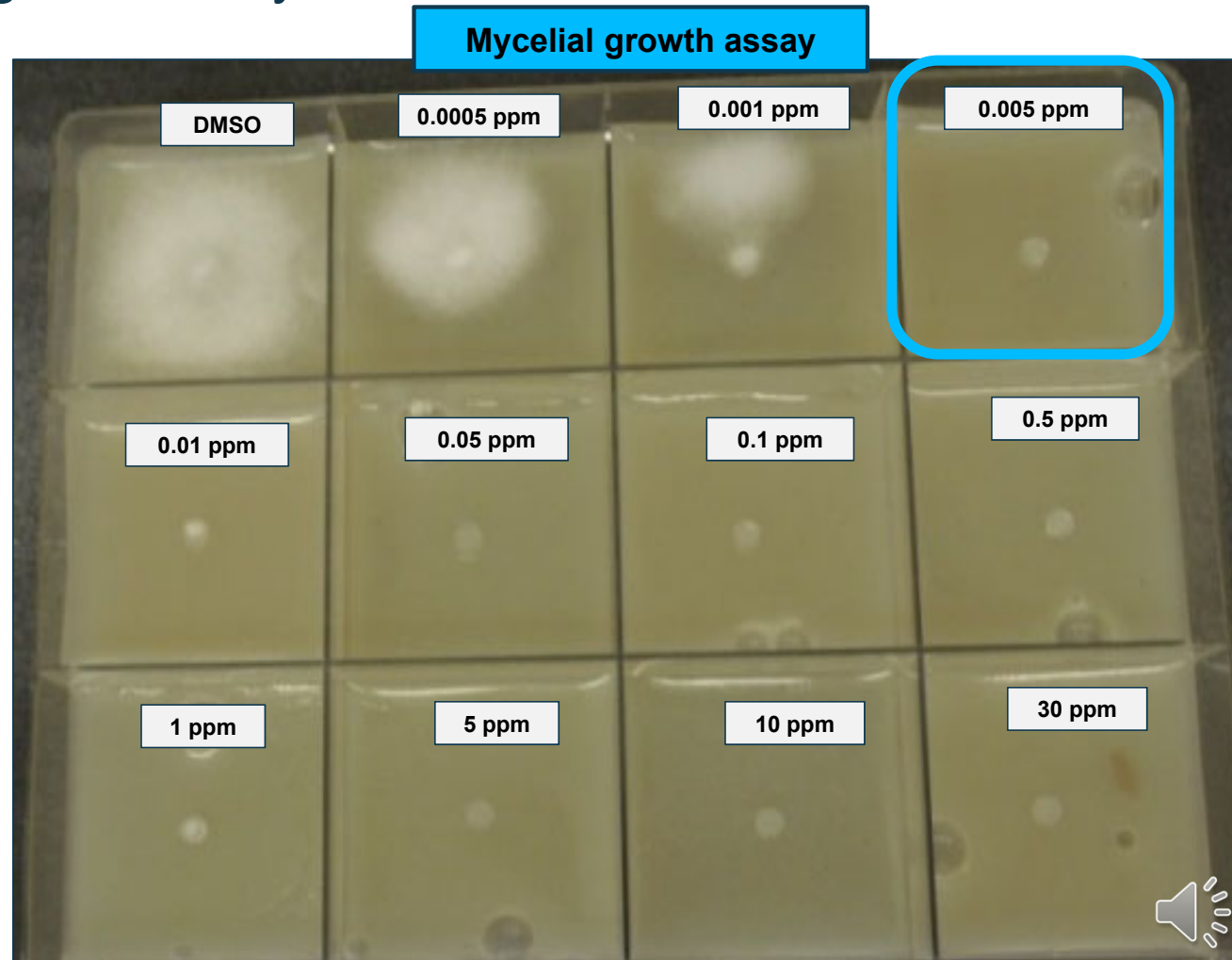
- // Disease control has been excellent and better than protectants.
- // There have been no indications of crop injury in any crop.





Fluoxapiprolin - Biological activity

- **Active on the major steps in the life cycle of the oomycete pathogen**
 - Spore germination
 - Germ tube elongation
 - Penetration
 - Mycelial growth
 - Sporangia formation
- **Effective at a fraction of 1 ppm.**
- **Lower rates than most other fungicides**
 - 20 g/Ha or 0.018 lbs/A

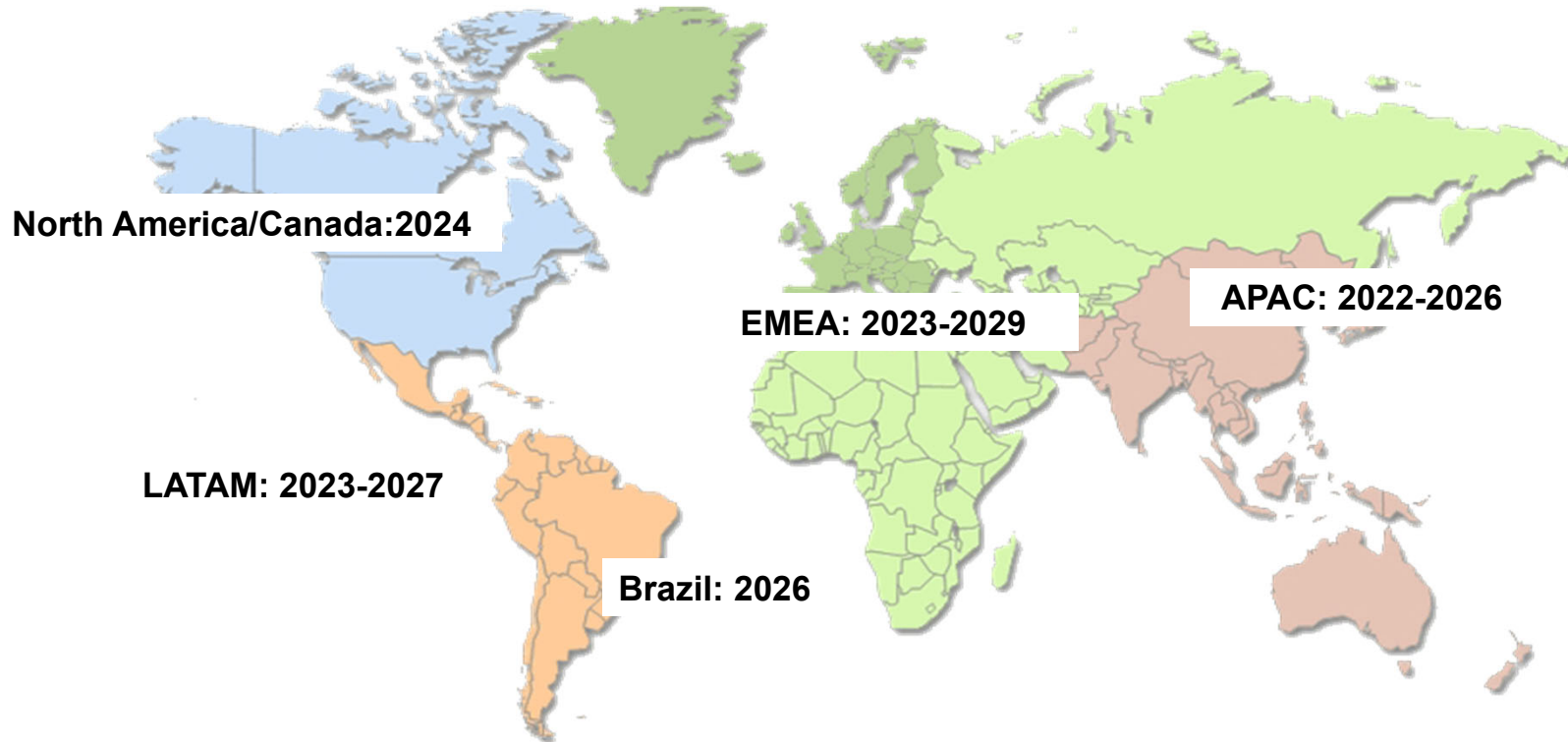




Xivana - Will be broadly registered to facilitate trade



EXPECTED Regulatory Approval Timeline



- Australia
- Cambodia
- Belarus
- Armenia





Forward-Looking Statements

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The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.





Thank you!

