

## Resistance management recommendations and proposals for fungicides not included in current working groups as requested by manufacturers

<b>COMPOUND</b>	Ametoctradin
<b>GROUP NAME</b>	QoSI (quinone outside Inhibitor, stigmatellin binding type)
<b>FRAC MoA CODE</b>	45
<b>TARGET SITE AND CODE</b>	C8: inhibition of Complex III
<b>Uses</b>	Control of oomycetes in various crops
<b>Resistance Status</b>	<i>Plasmopara viticola</i> : single cases of target site and non-target site resistance reported. <i>Phytophthora infestans</i> , <i>Pseudoperonospora sp.</i> , <i>Peronospora sp.</i> , <i>Bremia lactucae</i> : no resistance cases reported.
<b>Resistance Mechanism</b>	For <i>Plasmopara viticola</i> only: <ul style="list-style-type: none"> <li>• Target-site mutation in cytochrome b (S34L).</li> <li>• Non-target site resistance via alternative oxidase overexpression.</li> </ul>
<b>Recommendations</b>	Resistance management strategies might differ in regions or countries because of different disease pressure and national guidelines. <b>Recommendations for grapes:</b> Apply ametoctradin containing products in a preventative manner. Apply a maximum of 3 applications per season for control of grape downy mildew control. Use always in mixture (ready-mix or tank-mix) with an effective downy mildew partner. In order to reduce selection pressure, use in alternation with a non cross-resistant product is recommended. <b>Recommendation for potatoes and vegetables:</b> Apply ametoctradin containing products in a preventative manner. Always follow product specific recommendations for resistance management.
<b>Requested by / date</b>	BASF SE / June 2021
<b>FRAC SC approval / date</b>	06 July 2021