

## Role of Iprovalicarb 5.5+Propineb 61.25 fungicide in the management of Blight diseases of Tomato

---

**BHAWNA PANT<sup>1</sup>, BANDANA BOSE<sup>1</sup>, KAUSHIK BANERJEE<sup>2</sup>, TANMAY KUMAR KOLEY<sup>3</sup>, A. B. RAI<sup>3</sup>, ARPITA SINGH<sup>3</sup> AND SUJOY SAHA<sup>3\*</sup>**

<sup>1</sup>*Seed Physiology Laboratory, Department of Plant Physiology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi 221005, Uttar Pradesh*

<sup>2</sup>*ICAR-National Research Centre for Grapes(ICAR), Pune 412307, Maharashtra*

<sup>3</sup>*ICAR-Indian Institute of Vegetable Research(ICAR)Varanasi 221305 Uttar Pradesh*

---

Received : 20.04.2018

Accepted : 30.04.2018

Published : 30.07.2018

---

Fungal pathogens, *Alternaria solani* and *Phytophthora infestans*, causing early and late blight of tomato respectively, are responsible for an economic loss to the crop. Iprovalicarb 6.25 + Propineb 61.5@ 2250 - 2500 g ha<sup>-1</sup> provided a significant disease control as well as stimulated the synthesis of the pigments Chlorophyll a, Chlorophyll b and carotenoids of the tomato plants. There was an increased level of SOD, NR and proteins in the fungicide treated plants as well. The increased TSS, lycopene, total phenols and antioxidants content of the fruits signifies that the fungicide is not only responsible for successful disease management but improves the fruit quality too.

**Key words:** Tomato, early and late blight, physiology, fungicides, fruit quality

---