

论文

玉米叶斑病菌对23种杀菌剂的敏感性测定

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摘要:

采用孢子萌发法测定了玉米大斑病菌( *Exerohilum turcicum* )、玉米弯孢霉叶斑病菌( *Curvularia lunata*)、玉米灰斑病菌(*Cercospora zeae maydis* )孢子萌发对23种杀菌剂的敏感性;抑菌圈法测定了玉米大斑病菌和玉米弯孢霉叶斑病菌菌落生长对各药剂的敏感性。结果表明:3种病菌孢子萌发及玉米大斑病菌和玉米弯孢霉叶斑病菌菌落生长对70%代森锰锌WP、50%福美双WP、50%翠贝DF敏感性较高,0.1 mg / L≤EC<sub>50</sub> ≤2.0 mg / L ,抑菌圈直径>15 mm;3种病菌孢子萌发对50%速克灵WP、72%霜疫罢WP、75%达科宁WP、25%阿米西达SC、77%杜邦可杀得WP、400 g / L福星EC、40%信生WP的敏感性较好,0.1mg / L ≤EC<sub>50</sub> ≤5.0 mg / L。

关键词: 玉米大斑病 玉米弯孢霉叶斑病 玉米灰斑病 杀菌剂 敏感性测定

Sensitivity Determination of Maize Leaf Spot Pathogens to 23 Fungicides

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Abstract:

The sensitivity of the pathogens of 3 maize leaf spots(*Exerohilum turcicum*, *Curvularia lunata* and *Cercospora zeaemaydis*) to 23 fungicides was determined by spore germination method. The sensitivity of the colony growth of *E. turcicum* and *C. lunata* to 1 000 mg / L each fungicide was tested by inhibition zone method. The results showed that: the spore germination of these 3 pathogens and the colony growth of *E. turcicum* and *C. lunata* was more sensitive to 70% Mancozeb WP, 50% Thiram WP and 50% Kresoxim methyl DF(0.1 mg/L≤EC<sub>50</sub> ≤2.0 mg / L, the diameter of inhibition zone>15 mm). The spore germination of these 3 pathogens was sensitive to 50% Procymidone WP, 72% Cymoxanil • Mancozeb WP, 75% Chlorothalonil WP, 25% Azoxystrobin SC, 77% cocide WP, 400 g / L Flusilazole EC and 40% Myclobutanil technical WP (0.01 mg/L≤EC<sub>50</sub> ≤5.0 mg / L). The results of this research provided fundamental data for controlling maize leaf spots in northeast China.

Keywords: maize leaf blight; maize curvularia leaf spot; maize gray leaf spot; fungicide; sensitivity determination

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