BATTLE BACTERIAL SPOT WITH S10® TECHNOLOGY

INTRODUCING THE SHIELD® COLLECTION

Sakata's new collection of SHIELD® bell peppers are ready to take on the challenges of Eastern growing conditions, most notably: Bacterial leaf spot. Arm your program with Ninja S10® and Samurai S10® to combat bacterial leaf spot, and enjoy the added bonus of high yields of glossy, dark green, attractive extra-large and jumbo fruit!

NINJA S10®

Key Feature: Great size & yield potential

SAMURAI S10®

Key Feature: Marketable quality

Ninja S10® and Samurai S10® were bred with similar goals in mind. These varieties display top qualities expected by growers such as wide adaptability, high yield potential, fruit uniformity and a strong, vigorous plant habit.

Variety	Region / Growing method	Relative Maturity*	Fruit Size / Shape	Fruit Color	Plant Habit	Disease Resistance
Ninja S10®	EC	Early to mid-early	XL to jumbo / blocky		Medium-large	HR: TMV: 0 \\ IR: Xcv: 0-10
Samurai S10®	EC	Early to mid-early	XL / blocky		Medium-large	HR: TMV: 0 \\ IR: Xcv: 0-10

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease abbreviation code: Mi - Nematode, Pc - Phytophthora root rot, PMMoV - Pepper mild mottle, PVY - Potato Y, Rs - Bacterial wilt, TEV - Tobacco etch, TMV - Tobacco mosaic, TSWV - Tomato spotted wilt, Xcv - Bacterial spot.* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

Fruit Color: Dark, Green, Light, Dark red, Red, Orange, Yellow

Region: EC East Coast

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WHAT IS S10®?

Bacterial leaf spot is a serious pepper disease present throughout major pepper growing regions of the world and of late is a major consideration for most production locations in the Eastern United States. In the United States, there are 10 races of this pathogen that have been identified on peppers.

S10® indicates Sakata varieties with intermediate resistance to all ten races of the Bacterial leaf spot pathogen.

S10®- Signifies intermediate resistance to all 10 races of bacterial leaf spot in pepper. Bacterial spot of tomato and pepper is caused by four bacterial species (Xanthomonas euvesicatoria, X. vesicatoria, X. perforans, and X. gardneri). Of the four species, X. euvesicatoria appears to be the main causal agent for bacterial spot of pepper. At this time, 10 races of the pathogen have been identified on pepper in the United States. Because of the difficulty in differentiating the bacterial species with non-DNA based methods, the seed industry currently recognizes the causal agent by its former scientific name of Xanthomonas campestris pv. vesicatoria prior to its reclassification. All current varieties that claim resistance to all 10 races of bacterial leaf spot in pepper claim intermediate resistance.

SAKATA®

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