



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: Region: East Coast



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.

DISCLAIMER

Claims and other disclosed information are based on our observations and/or information from other sources. Crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, the environment, including management, and other uncontrollable factors that may alter expected performance. Statements concerning the reaction of varieties to a specific pathogen, pest or stress are based on evaluation under defined conditions. These reactions can be affected by changes in environmental and biological factors, especially new pathogen races, pest biotypes or vectors of disease agents. Therefore, we give no warranty, express or implied, for crop performance relative to the information given; nor do we accept any liability for any loss, direct, indirect, or consequential, that may arise from any cause. Read all seed package labeling carefully to understand the terms and conditions of sale.



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