

SEED RESEARCH REPORTS

4010

Perennial Ryegrass

SR 4010 perennial ryegrass is a new, advanced generation synthetic cultivar descended from SR 4000. It is a semi-dwarf variety with medium, dark green color, selected to match SR 4200. It was also selected for improved turf quality, stress tolerance, and brown patch resistance. SR 4010 maintains the traditional virtues of perennial ryegrasses: rapid germination and establishment under many environmental conditions, with improved summer performance.

IMPROVED TURF QUALITY

SR 4010's lower growth and high tillering ability allows it to form a dense, fine-textured, leafy turf. It can tolerate a low height of cut, as low as 1/2 inch, and still maintain its density. In addition to reduced mowing requirements, SR 4010 has excellent mowing quality with little spring stemminess. It has excellent seedling vigor and the ability to establish rapidly. If damaged, it has the ability to rapidly recover during any time of the year. It has demonstrated the ability to resist weed invasion and maintain density, even under extreme environmental pressure.

ENDOPHYTE ENHANCED

SR 4010 contains high levels of viable endophyte. The presence of these high levels of endophyte provides many benefits to SR 4010. It has shown enhanced resistance to many important turf insects including: billbugs, sod webworms, chinch bugs, and armyworms. The presence of the endophyte also contributes to improved stress tolerance with better summer survival, enhanced fall recovery, and reduced weed invasion. The endophyte has also been shown to reduce nematode levels. High endophyte levels can only be maintained through proper storage of breeder, foundation and certified seed.

IMPROVED DISEASE RESISTANCE

SR 4010 has excellent resistance to winter net blotch (caused by *Drechslera dictyoides* F. sp. *perenne* (Drechs.) Braverman and Graham) and brown patch, and improved resistance to leaf spot and stem rust (caused by *Puccinia graminis* Pers.). It has also shown good resistance to fusarium patch and dollar spot.

OVERSEEDING

SR 4010 is well suited for overseeding of dormant, warm-season turfgrasses. Its lower growth profile, which is especially evident during periods of reduced day length makes SR 4010 an excellent choice for winter overseeding.

- Low growing
- Medium, dark green color
- Dense, fine-textured leafy
- Excellent mowing qualities
- Excellent tolerance of temperature extremes
- Outstanding wear tolerance
- Excellent for overseeding
- Outstanding seed production

PVP

IMPROVEMENT THRU RESEARCH