



PROTOCOL 3
Turf-Type PERENNIAL RYEGRASS

***“Watch out turfgrass diseases!
We’ve got a new Protocol for
planting turf ryegrass...and
you’re no longer welcome!”***

Advanced Disease Resistant Ryegrass

PROTOCOL 3 IS MORE RESISTANT! Professional turf users as well as homeowners will be pleased to learn there is a new ryegrass available with even better disease resistance. Protocol 3 is the latest selection of an advanced synthetic generation perennial ryegrass line, focused on developing a turfgrass which has even more disease resistance than previous varieties. Specifically, Protocol 3 has been selected for improved resistance to leaf spot, grey leaf spot, and stem/crown rust resistance. Protocol 3 is a third generation in a line that was specifically screened in Florida for improved grey leaf spot resistance. *These advances provide both homeowners and professional turfgrass managers the genetic potential to significantly upgrade existing older lawns and establish new lawns with greater confidence, ease, and reliability.*

PROTOCOL 3 IS HEALTHIER! Protocol 3 was selected for better persistence. Protocol 3 combines a superior turf quality and appearance with improved genetic resistance to a wide range of disease and pests, including stem and crown rust, grey leaf spot, dollar spot, Helminthosporium species, red thread, and brown patch. A significant level of natural endophyte provides resistance to many insects that feed on plant leaf and crown tissue including the sod web worm larva, chinch bugs and bill bugs. *Because of its broad based genetics it can be relied upon to perform well under a wide range of environmental and geographical conditions and turfgrass management regimes.*

PROTOCOL 3 IS ATTRACTIVE! Protocol 3 has also been bred to be darker green and finer bladed. Its attractive, dark green color, and tight dense leaf blades blend well with the newer dark cultivars of ryegrass, Kentucky bluegrass and fescues. *Greater uniformity of color, texture, increased tiller activity, and growth habit makes Protocol 3 very attractive by itself or together with other grasses.*

PROTOCOL 3 MOWS NICER! Protocol 3 has a minimum of tough hard-to-mow fibers commonly found in older ryegrass varieties. Many older varieties tear and shred when mowed, especially during periods of hot, dry weather. *A reduction in plant crown height allows for a lower rate of leaf vertical elongation and subsequently reduces mowing requirements.* Ideally, Protocol 3 should be maintained in the 1.0 to 2.0 inch range for home lawns and as low as 0.125 inch for overseeded golf course putting under high management conditions.

| Univ of AZ Overseeding Trials Tucson, AZ '03-04 | | | |
|--|------------|------------|------------|
| | Color | Quality | Texture |
| Protocol 3 | 7.2 | 6.8 | 7.0 |
| Headstart II | 7.2 | 6.4 | 7.3 |
| Greenville | 6.6 | 6.6 | 6.9 |
| Racer II | 6.2 | 6.9 | 7.2 |
| Sierra | 6.2 | 5.8 | 6.8 |
| AllSport | 6.1 | 6.3 | 6.8 |
| ProSport | 5.8 | 5.9 | 6.7 |
| LSD | 0.5 | 0.7 | 0.5 |

PROTOCOL 3 IS VERSATILE! Protocol 3 is adapted to a wide range of soil and moisture conditions. It is best planted on fertile, neutral pH soils, yet tolerates wet acid soil very well. Protocol 3 is recommended for home lawns, parks, athletic fields, golf course, roadsides and industrial lawns. Rapid germination (5-7 days) and excellent seedling vigor will ensure a quick, tightly knit lawn ready to be mowed within 3-4 weeks after seeding. Overseeding into established older lawns is an easy way to upgrade older lawns without a complete renovation. Once established, 0.5 to 0.75 pounds of actual nitrogen per 1000 square feet per month during the growing season is recommended to maintain plant health and attractiveness.

SEEDING RATES
New Lawns: 7-9 lbs/1,000 sq.ft., 300-400 lbs/acre
Winter Overseeding:
Tees – 15-30 lbs./1,000 sq. ft
Greens – 25-40 lbs/1,000 sq ft
Fairways – 200-600 lbs/acre
Athletic Fields – 10-15 lbs/1,000 sq ft.

PROTOCOL 3 IS AVAILABLE THROUGH: