



IMPERIALSEED



**Hi-Gest™ Alfalfa Technology improves fiber digestibility and forage quality while maintaining yield, persistence and multiple pest resistance.**

**Hi-Gest™ ALFALFA  
TECHNOLOGY**

Lignin is a complex organic compound that hardens and strengthens plant cell walls. In mature plants, lignin negatively affects forage quality and interferes with animal digestion. Through focused breeding, Hi-Gest developed varieties offer a **5-10% increased rate of fiber digestion**, which improves animal intake; a **5-10% increased extent of fiber digestion (as measured by UNDF240)**, and **raises crude protein by 3-5%** when compared to other conventional varieties\*. The net impact is higher testing, higher value hay which can mean **2.5 or more pounds of milk per cow per day** when fed versus other conventional varieties.

## BOOST HG

- An elite, conventional variety selected for high yield and quality, with a high leaf to stem ratio and more crude protein.
- Features improved fiber digestibility when compared to other conventional dormant varieties for enhanced animal performance.
- Offers management flexibility to work around the weather or manage tonnage and quality to maximize return per acre.
- A patent pending variety

AGRONOMIC RATINGS	
Fall Dormancy	3.0
Winter Hardiness	1.5
Multifoliate Leaf Expression	73%
Disease Resistance Index	35/35

DISEASE RESISTANCE RATINGS	
Anthracoese	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	HR
Phytophthora Root Rot	HR
Bacterial Wilt	HR
Fusarium Wilt	HR
Verticillium Wilt	HR

PEST RESISTANCE RATINGS	
Blue Alfalfa Aphid	R
Pea Aphid	MR
Spotted Alfalfa Aphid	MR
Cow Pea Aphid	R
Stem Nematode	R
Northern Root Knot Nematode	-
Southern Root Knot Nematode	-

### Product Description and Management Guidelines

BOOST HG is a medium tall variety with a dense, leafy canopy and high leaf to stem ratio. Lodging tolerance is comparable to other high yielding competitive varieties. BOOST HG has the flexibility to adjust to aggressive harvest systems to maximize yield and quality or to more relaxed schedules focused on tonnage. BOOST HG is widely adapted across a broad range of geographies and soil types.

\* The increased rate of fiber digestion, extent of digestion and crude protein data was developed from replicated research and on-farm testing. During the 2015 growing season at West Salem, WI and Woodland, CA, the following commercial dormant, semi-dormant and non-dormant alfalfa varieties were compared head-to-head with Hi-Gest® alfalfa for rate of digestion, extent of digestion and percent crude protein; America's Alfalfa 427TQ, Cropland Brands LegenDairy XHD and Artesia Sunrise; Fertizona Brand Fertiliac; S&W Seeds Brands SW6330, SW7410 and SW 10; and WL Brands WL 319HQ and WL 354HQ. Also during the 2015 growing season, 32 on-farm Hi-Gest hay and silage samples were submitted to Rock River Laboratory, Inc. for forage analysis. The results for rate of digestion, extent of digestion and percent crude protein were averaged and compared to the 60 day and four year running averages for alfalfa in the Rock River database which included approximately 1,700 alfalfa hay and 3,800 silage 60 day test results and 23,000 hay and 62,000 silage tests results in the four year average.