



**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 varieties offer high yield and improved fiber digestibility. This improvement in fiber digestibility **increases the rate of fiber digestion**, which can **improve animal intake by 5-10%**; **the extent of fiber digestion by 5-10%**, and **crude protein by 3-5%**. The net impact can be **2.5 or more pounds of milk per cow per day**.

## Surge HG

- Delivered in elite genetics through conventional plant breeding that are non-transgenic.
- 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 TRAITS	
Fall Dormancy	4.0
Winter Hardiness	1.7
Multifoliate Leaf Expression	93%
Disease Resistance Index	34/35

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

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

### Management Guidelines

Surge HG is a product of conventional plant breeding and maintains the yield, persistence and multiple pest resistance package of today's elite commercial varieties. Surge HG is a medium tall variety with a dense, leafy canopy and high leaf to stem ratio. As a non-transgenic variety, Surge HG does not require special stewardship management considerations. Lodging tolerance is comparable to other high yielding competitive varieties and offers management flexibility if harvest is delayed. Surge HG is widely adapted across a broad range of geographies and soil types.

Agronomic and pest ratings are based on standardized testing procedures endorsed by the North American Alfalfa Improvement Conference. Fiber digestibility data is calculated using proprietary Alforex Seeds protocols. Actual performance may be adversely affected by extreme conditions.