

“THE VIBRANCE EFFECT” IN SPRING BARLEY

- **VIBRANCE® Duo is registered for use as a seed treatment on spring barley, spring wheat and spring oats**
- **Good control of key seed and soil-borne diseases**
- **Excellent establishment and rooting benefits to help build a more resilient crop**



APPROVAL FOR MALTING BARLEY

VIBRANCE® Duo is approved by the British Beer and Pub Association and Campden BRI for use on malting barley.

VIBRANCE® DUO SPRING CEREALS LABEL

Active ingredients	25 gai/l sedaxane + 25 gai/l fludioxonil
Spring crops	Spring wheat, spring barley, spring oats
Use rate	2.0 l/t spring wheat and spring barley, 1.0 l/t spring oats
Timing	1 application before planting

SUMMARY OF ACTIVITY IN BARLEY

- ▶ **Seed-borne snow mould (*Monographella nivalis*)**
- ▶ **Covered smut (*Ustilago hordei*)**

MODERATE CONTROL OF:

- ▶ **Leaf stripe (*Pyrenophora graminea*)***
- ▶ **Loose smut (*Ustilago nuda*)***

*Barley seed treated with VIBRANCE® Duo must not be used for seed multiplication (certified seed) unless co-applied with another product which controls leaf stripe (*Pyrenophora graminea*) and loose smut (*Ustilago nuda*).

VIBRANCE® Duo loose smut best use advise on winter and spring barley

Use VIBRANCE® Duo on:

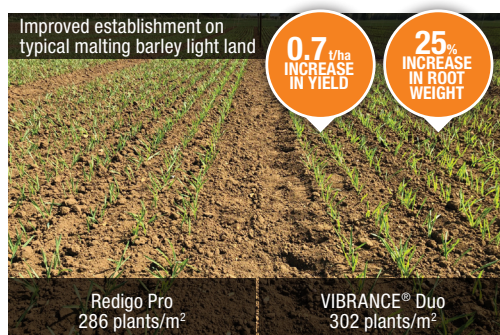
- Certified seed
- Farm saved seed tested with <0.2% loose smut infection

Use VIBRANCE® Duo with a loose smut active partner in high risk loose smut situations:

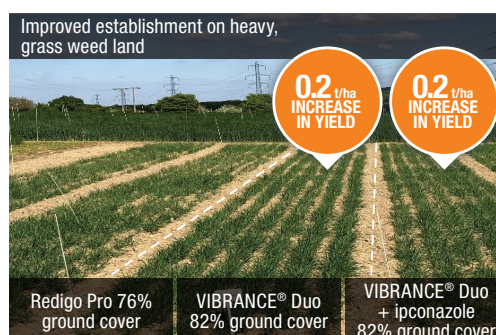
- Untested or loose smut infected farm saved seed
- When planning to farm save your seed

BUILDING A RESILIENT CROP – ROOTING AND ESTABLISHMENT

IMPROVED ESTABLISHMENT OF LAUREATE SPRING BARLEY HELPS TO PROTECT YIELD



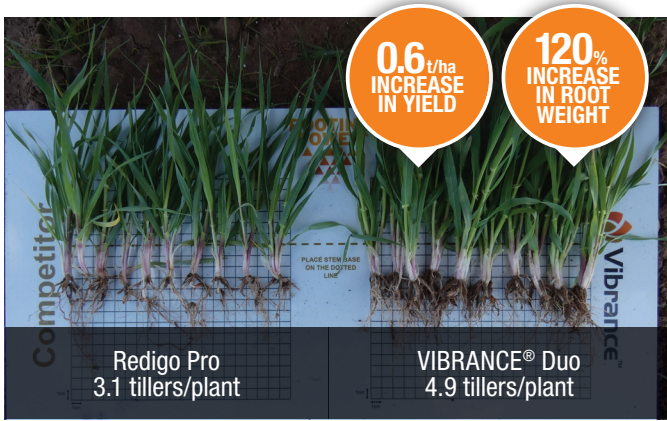
Newark, Nottinghamshire, LAUREATE spring barley drilled 3rd April 2020 and assessed 16th April 2020.



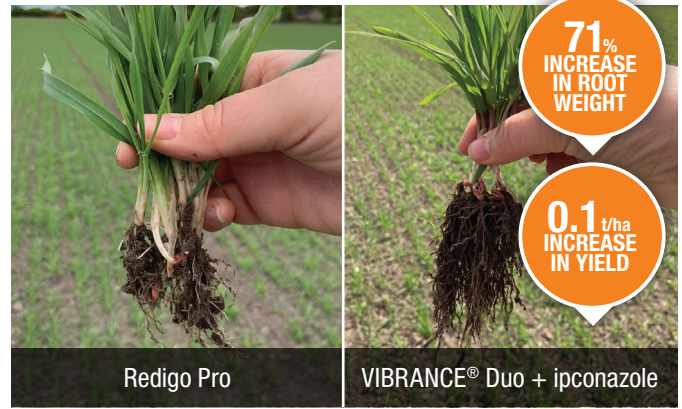
Doncaster Ryegrass Innovation Centre, LAUREATE spring barley, heavy land drilled 25th February 2019.

Establishing good root structures can be particularly important in spring cereals. Recent seasons have seen extremes of weather including dry spring conditions which can lead to plant stress. This can be a particular challenge on typically lighter soil types used for growing malting barley.

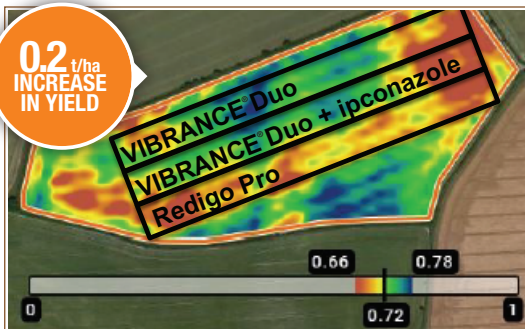
A STRONG ROOT STRUCTURE PROVIDES BETTER ACCESS TO NUTRIENTS AND WATER LEADING TO IMPROVED PLANT HEALTH AND VIGOUR



Shropshire, LAUREATE spring barley, light land, drilled 23rd March 2020 and assessed 14th May 2020



Fife, Scotland, LAUREATE spring barley, sandy clay loam, drilled end of March 2020 and assessed 14th May 2020



GREEN LEAF RETENTION IN MALTING SPRING BARLEY

Improved establishment and rooting with VIBRANCE® Duo improved green leaf retention and plant health.

Blue and green areas = Higher green leaf retention
Yellow and red areas = Lower green leaf retention

Source: ADAS Dorset, LAUREATE spring barley, chalk soil, drilled 28th March 2020 and assessed 31st May 2020

SPRING WHEAT

VIBRANCE® Duo has approval for use on spring wheat seed. Independent university research showed that spring wheat seed treated with sedaxane, the SDHI active ingredient in VIBRANCE® Duo, produced plants with greater root and shoot mass, even in the absence of known disease. Improved rooting effects were also long-lasting, still evident when the crop was coming into ear.

Establishing good root structures is associated with improved access to soil moisture and nutrients and is a significant step towards maximising crop yields and quality.

In other trial work, VIBRANCE® Duo gave an average of an extra 0.27 t/ha over an alternative seed treatment across three different varieties of spring wheat.

