# CHALLENGER
## VARIETY INFORMATION



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| Genetic Origin |
|---|
| Bred at Wye College and released for commercial planting in 1972; it is a granddaughter of Northern Brewer crossed with a downy mildew resistant male and is a 'cousin' of Target. |

| Agronomic Aspects | |
|---|---|
| **Growing** | |
| Classification | Dual Purpose |
| Yield (kg/ha) | 1,400 - 1,750 |
| Maturity | Late |
| Main growing country | UK |
| **Resistance against Diseases** | |
| Wilt diseases | Susceptible |
| Downy mildew | Resistant |
| Powdery mildew | Susceptible |

| Chemical Ingredients | |
|---|---|
| **Bitter Components** | |
| Alpha acid % | 5.0 - 9.0 |
| Beta acid % | 3.0 - 4.0 |
| Cohumulone % rel. | 27 - 30 |
| Hard resins : alpha acid | 0.24 - 0.47 |
| **Polyphenoles** | |
| Xanthohumol | 0.2 - 0.3 |
| **Aroma Components** | |
| Total oils (ml/100g) | 1.0 - 1.5 |
| Beta-caryophyllene: Humulene | 0.30 |
| Farnesene % of total oil | 1.0 - 2.0 |

| Aroma Evaluation (Smell of Raw Hops, 0-5) | |
|---|---|
| **Aroma Specification** | Spicy, green tea, cedar |

| Substitutes | |
|---|---|
| **Brewhouse** | **Dry Hopping** |
| Northdown | Northdown |

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Hopsteiner
COMMITTED TO THE BREWER

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