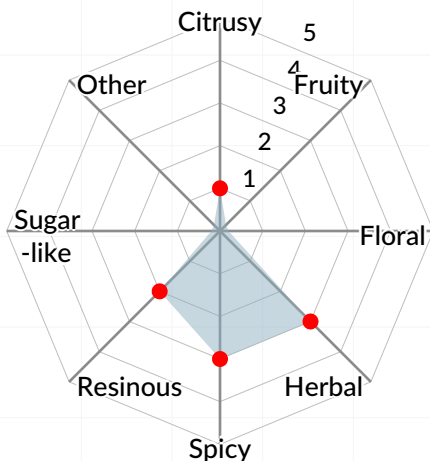


AROMA EVALUATION



AROMA SPECIFICATION

spicy, green tea, cedar

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

| | |
|----------------------|---------------|
| 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 |
| Co-Humulone % rel. | 27 - 30 |
| Hard Resins : Alpha-Acid | 0.24 - 0.47 |

POLYPHENOLES

| | |
|-----------------------|-----------|
| Xanthohumol (EBC 7.7) | 0.2 - 0.3 |
|-----------------------|-----------|

AROMA COMPONENTS

| | |
|------------------------------|-------------|
| Total Oils (ml/100g) | 1.0 - 1.5 |
| Beta-Caryophyllene: Humulene | > 0.30 |
| Farnesene % of total Oil | 1.00 - 2.00 |

VISUAL EVALUATION



HOP ALTERNATIVES

BREWHOUSE

Northern Brewer, Perle

DRY HOPPING

Northern Brewer, Perle

HOPS HOTLINE
800.339.8710