



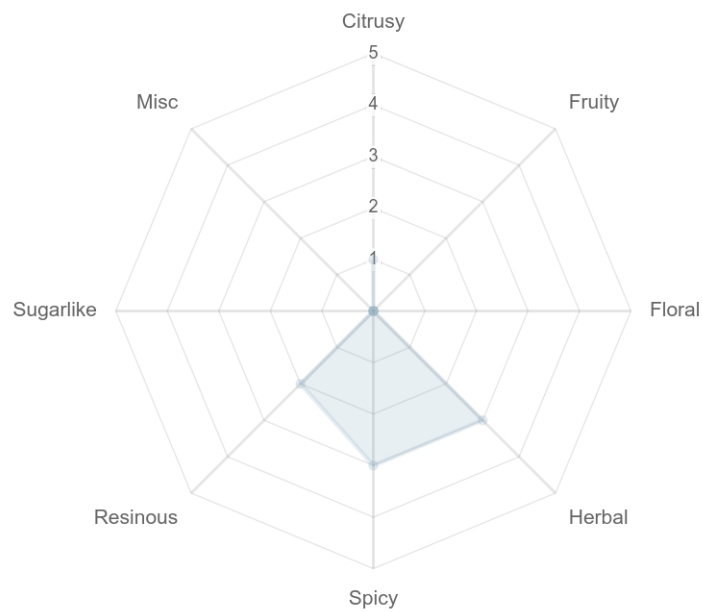
CHALLENGER

Herbal

Spicy

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.

AROMA EVALUATION



Rated by the smell of raw hops on a 0-5 scale

AROMA DESCRIPTION

Spicy, green tea, cedar

AGRONOMIC ASPECTS

GROWING

Yield (kg/ ha)	1400 - 1750
Maturity	late
Main growing country	United Kingdom

RESISTANCE AGAINST DISEASES

Wilt disease	susceptible
Downey mildew	resistant
Powdery mildew	susceptible

INGREDIENTS

BITTER COMPONENTS

Alpha acids %	5.0 - 9.0
Beta acids %	3.0 - 4.0
Co-humulone % rel.	27 - 30

POLYPHENOLS

Xanthohumol %	0.2 - 0.3
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AROMA COMPONENTS

Total oil (ml/100g)	1.0 - 1.5
Farnesene % rel. of total oil	1.00 - 2.00

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