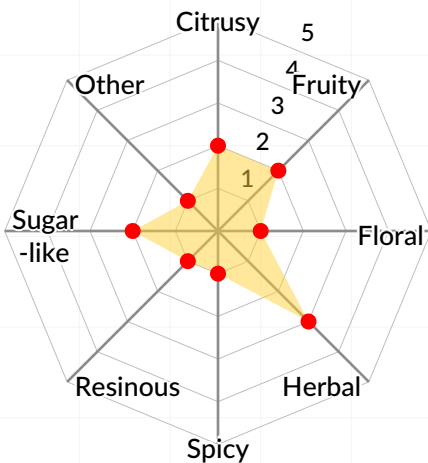


AROMA EVALUATION



VISUAL EVALUATION



AROMA SPECIFICATION

lemon, sweet, cedarwood

GENETIC ORIGIN

(Brewers's Gold x Saazer - OP) x Beikei No. 2 male - developed by Sapporo Breweries released in 1988

HOPS HOTLINE
800.339.8710

AGRONOMIC ASPECTS

GROWING

Yield (kg/ha)	1,100 - 1,400
Main Growing Country	USA

CHEMICAL INGREDIENTS

BITTER COMPONENTS

Alpha-Acid %	10.0 - 15.2
Beta-Acid %	6.0 - 10.2
Co-Humulone % rel.	20 - 25
Hard Resins : Alpha-Acid	0.90 - 1.10

POLYPHENOLS

Total Polyphenols	2.2 - 0.0
Xanthohumol (EBC 7.7)	0.4 - 0.6

AROMA COMPONENTS

Total Oils (ml/100g)	2.5 - 4.5
Beta-Caryophyllene: Humulene	0.28 - 0.33
Farnesene % of total Oil	0.70 - 1.80
Linalool % of total Oil	0.1 - 0.3
Linalool: Alpha-Acid	0.01 - 0.02