

COLUMBUS / TOMAHAWK

VARIETY INFORMATION



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Genetic Origin

Tomahawk is a bittering hop of recent origin.

Agronomic Aspects

Growing

| | |
|----------------------|---------------|
| Classification | Aroma |
| Yield (kg/ha) | 2,900 - 3,000 |
| Maturity | Late |
| Main growing country | USA |
| Acreage (ha) | 572 |

Resistance against Diseases

| | |
|----------------|-------------|
| Powdery mildew | Susceptible |
| Aphid | Susceptible |

Chemical Ingredients

Bitter Components

| | |
|--------------------------|-------------|
| Alpha acid % | 15.0 - 17.0 |
| Beta acid % | 4.5 - 5.0 |
| Cohumulone % rel. | 30 - 35 |
| Hard resins : alpha acid | 0.21 - 0.46 |

Polyphenoles

| | |
|-------------|-----------|
| Xanthohumol | 0.7 - 0.8 |
|-------------|-----------|

Aroma Components

| | |
|------------------------------|-------------|
| Total oils (ml/100g) | 2.5 - 3.5 |
| Beta-caryophyllene: Humulene | 0.60 - 0.61 |
| Farnesene % of total oil | <0.0 |
| Linalool % of total oil | 0.4 - 0.6 |

Aroma Evaluation (Smell of Raw Hops, 0-5)

| | | | | | |
|----------------------------|-----------------------------------|--|--|--|--|
| Aroma Specification | black pepper, onion, light citrus | | | | |
| Fruity | | | | | |
| Floral | | | | | |
| Citrusy | | | | | |
| Spicy | | | | | |
| Earthy / resinous | | | | | |
| Herbal | | | | | |
| Sugar-like | | | | | |

Substitutes

| Brewhouse | Dry Hopping |
|-------------------------|-------------------------|
| Galena, Chinook, Nugget | Galena, Chinook, Nugget |

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