

Vanguard

U.S. Aroma Hop

Vanguard was developed from a diploid seedling from Hallertau Mittelfrueh and both USDA male and female crosses. The variety was released in 1997.

| Pedigree | Cross between Hallertau MF and USDA male hop |
|-------------------|--|
| Aroma | Herbal similar to Hallertau MF |
| Alpha Acids* | 5.5 - 6.0 % |
| Beta Acids | 6.0 - 7.0 % |
| Cohumulone | 14 - 16 % of alpha acids |
| Total Oil | 0.9 - 1.2 ml/100g |
| Myrcene | 20 - 25 % of total oil |
| Humulene | 45 - 50 % of total oil |
| Caryophyllene | 12 - 14 % of total oil |
| Farnesene | < 1 % of total oil |
| Storage Stability | Very good to excellent |