



# Magnum

Germany

High Alpha Hop

This high alpha variety was bred in 1980 at Hüll Hop Research Center in Germany and is known for its extremely large and heavy cones. It produces good yields, and like many of the Hüll varieties, Hallertauer Magnum has a high tolerance to disease.

<b>Pedigree</b>	<b>Daughter of U.S. Galena</b>
<b>Aroma</b>	<b>Spicy with some fruity</b>
<b>Alpha Acids*</b>	<b>11.0 - 16.0 %</b>
<b>Beta Acids</b>	<b>5.0 - 7.0 %</b>
<b>Cohumulone</b>	<b>21 - 29 % of alpha acids</b>
<b>Total Oil</b>	<b>1.6 - 2.6 ml/100g</b>
<b>Myrcene</b>	<b>30 - 45 % of total oil</b>
<b>Humulene</b>	<b>30 - 45 % of total oil</b>
<b>Caryophyllene</b>	<b>8 - 12 % of total oil</b>
<b>Farnesene</b>	<b>&lt; 1 % of total oil</b>
<b>Storage Stability</b>	<b>Very good</b>

\* Alpha acids are determined by conductometric titration (EBC 7.4) in Europe; by spectrophotometric (ASBC Hops-6) in USA Copyright©2014 John I. Haas, Inc.