

# COLUMBUS



Originally selected by Charles Zimmerman for Hopunion, Inc., Columbus is a descendant of Nugget. It is a high alpha variety and is primarily used for bittering purposes. Columbus is often referred to as CTZ, a trio of similar hops including Tomahawk® and Zeus.

COUNTRY  
**UNITED STATES**

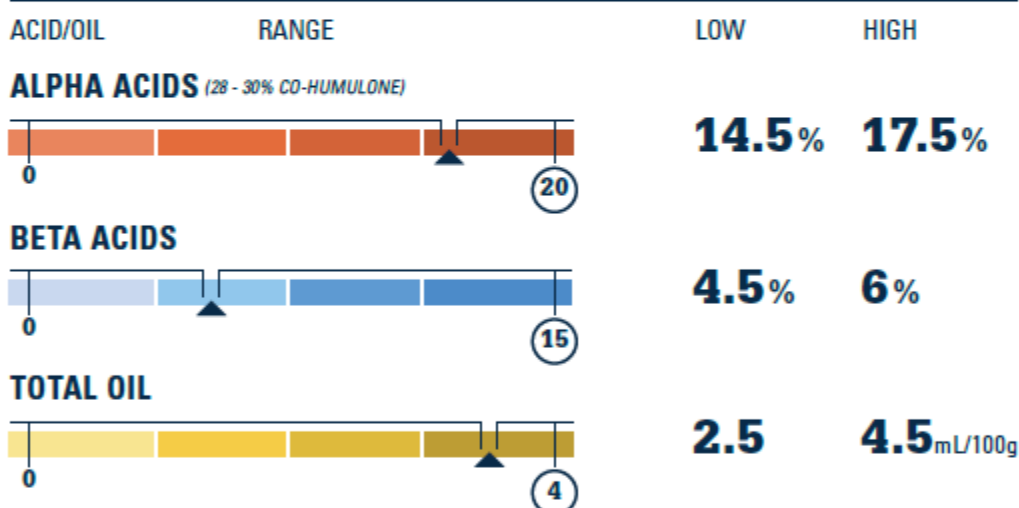
AROMA PROFILE  
**BLACK PEPPER • DANK  
RED FRUIT**



BEER STYLES

**IPA • IMPERIAL ALE • PALE ALE**

## BREWING VALUES



## TOTAL OIL BREAKDOWN

B-PINENE	0.6 - 1% OF TOTAL OIL	
MYRCENE	45 - 55% OF TOTAL OIL	
LINALOOL	0.4 - 0.6% OF TOTAL OIL	
CARYOPHYLLENE	6 - 10% OF TOTAL OIL	
FARNESENE	<1% OF TOTAL OIL	
HUMULENE	9 - 14% OF TOTAL OIL	
GERANIOL	0.2 - 0.5% OF TOTAL OIL	
SELINENE		
OTHER	18 - 38% OF TOTAL OIL	



**YAKIMA CHIEF HOPS™**