



1224 American Way, Watertown, WI 53094 Phone 920.261.0963 Fax 920.261.0642

Single Phase Isomerization and Reduction Extract (SPIRE B)

Product Description

A standardized solution of reduced isomerized α -acids (35% w/w by UV Spectrophotometric analysis) produced from CO₂ extract. SPIRE B provides protection from light struck flavor when used as the complete source for bittering.

Product Specifications

Description	A reddish-brown solution of the potassium salts of reduced iso- α -acids
Concentration	Standard concentration is 35.0% w/w ($\pm 1.0\%$) of reduced iso- α -acids by UV Spectrophotometric analysis or corresponding HPLC concentration
pH	9.2 (Range 8.6 – 9.4)
ISO Alpha Acids	< 0.5%
Beta Acids	< 4.0%

Quality and Food Safety

- Watertown Hops Company, located in Watertown, WI - USA, is a Certified FSSC 22000 and ISO 9001:2015 facility.
- Our Food Safety Program is HACCP based and is designed for the advanced hops products produced at this facility.
- Our facility is compliant with FDA regulations for extract (Site: 21CFR 172.560) and is Generally Recognized as Safe (GRAS) when used as a direct human food ingredient.
- Watertown Hops is also compliant with the required Good Manufacturing Practices (GMP) of Title 21, Code of Federal Regulations, and Part 110.
- Our product is Kosher certified.

Packaging

SPIRE B is packaged in 45 lb. high-density polyethylene (HDPE) containers or in 1,275 kg recyclable totes (or as otherwise agreed).

Storage and Product Shelf Life Recommendations

- Store SPIRE B in unopened pails. Ideal storage 50-77°F (10-25°C) with an acceptable storage range of 40-100°F (4.4-37.8°C)
- Avoid freezing.
- Prolonged storage at high temperatures can cause degradation.
- SPIRE B should be warmed to 140°F and mixed thoroughly prior to use.
- SPIRE B is stable for 18 months from the date of production under the recommended storage conditions.

