



# Production Method

## Energy L-Fusion Liquid Humic Acids

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Approved by: Bernier Coto

### 1. DESCRIPTION of MANUFACTURING PROCESS

**Ingredients:** Water, Potassium Hydroxide (KOH), Raw Humalite (EnergyHume Powder).

1. Reactor is filled with appropriate amount of water.
2. Humalite is added at a rate established in a w/w ratio to the amount of water.
3. Potassium Hydroxide is added to the mixture. Target inclusion rate is based on a w/w ratio to the amount of water, however pH is monitored to ensure an established maximum is not exceeded.
4. Add Raw Humalite (EnergyHume Powder). Slurry is mixed for 1 – 1.5 hrs.
5. Perform Quality control tests at the end of the mixing period, (pH, Humic Acid Levels, dissolve rate). If is not at optimal level, adjust and mix the batch accordingly until correct.
6. If batch is at optimal quality control levels, screen mixture a minimum of two times and transfer to settling tanks.
7. Once product has properly settled, mixture is screened again to remove any further solids, and moved to storage tanks. Reacted solution is transferred through mechanical filtration system into a holding tank..
8. Product is packed in 1000L or 18.9L containers for shipping.

### 2. Process Flow Diagram

