

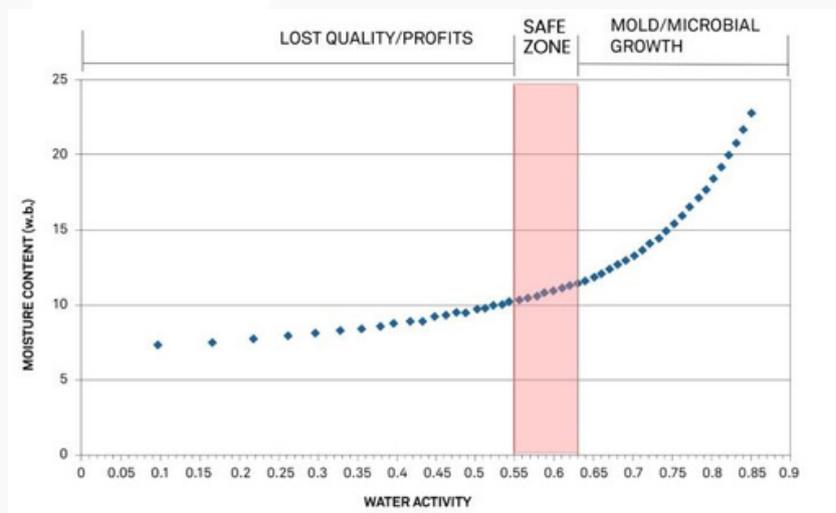
## Water Activity (aw)

GemmaCert analyzes Water Activity (aw) to help predict if your cannabis/hemp is safe to store and transport. Water Activity is a widely used metric for food and pharmaceutical safety.

- Water activity is a better index for microbial growth than water content (moisture %).
- It is critical for predicting the growth of bacteria, yeasts, mold, oxidation, and premature THC decarboxylation.

### The optimum water activity range is between 0.55 – 0.65.

- Low water activity, under 0.55, means the product is too dry, trichomes are brittle, delicate, and less potent or destroyed, risking profitability.
- High water activity, above 0.65, means the product is too wet, possibly causing contamination and mold, exposing customers to unnecessary health risks and risking your company's brand and reputation.



- Available on GemmaCert devices via the latest over-the-air software update. Results will appear on the GC smartphone app along with THC and CBD potency.
- For accurate water activity analysis of dry flowers, a whole flower must be analyzed, not ground material.
- Grinding of flowers leads to water loss and results will not reflect the actual water activity level.

### What is water activity?

- Water activity, or aw, is a measure of the free moisture in a product.
- The water activity of cannabis describes the degree to which water is “bound”, and its availability to participate in chemical/biochemical reactions and the growth of microorganisms.
- Water activity better predicts the growth of microorganisms because microorganisms can only use available water.

