

KEEP IT IN THE SWEET SPOT

PH UP & DOWN PH ADJUSTER

Keep the nutrient solution and the growing medium in the "sweet spot" (pH 5.5—6.5) for optimal nutrient uptake and no deficiencies.



SIMPLE, EASY SUCCESS
emeraldharvest.co

What is pH Up and Down?

pH Up and pH Down regulate the pH for optimal nutrient uptake, stable beneficial bacteria colonies, and help prevent nutrient deficiencies.

pH range and nutrient uptake

At Emerald Harvest, we talk a lot about the “sweet spot”. The best range for hydroponically grown cannabis plants is pH 5.8 to 6.3, although you’ll often see that expressed as 5.5 to 6.5 to give a wider margin for measurement. This range is a kind of compromise among the various optimal pH ranges of all the essential plant nutrients, ensuring that plants absorb at least the minimum.

A big challenge for growers is that each essential nutrient enters plants best within a certain pH range:

- Nitrogen has a fairly large range
- Iron is best taken up when the pH is slightly acidic.
- Molybdenum is best when pH is slightly alkaline

Chelation can expand the pH range of micronutrients. Chelation is when one element or compound assists another in being taken up by the plant. It is important to use the entire Emerald Harvest line because many of our nutrient products aid in chelation.

Why use Emerald Harvest pH Up and Down?

Emerald Harvest pH Up and Down are very concentrated and very pure. They provide a very consistent and accurate formulation that growers can depend on.

Most growers, whether commercial growers or hobbyists, won’t need pH Up or pH Down. If they’re using the core Emerald Harvest product line, without any outside supplements or competing products, then in most circumstances they won’t need to adjust the pH. Our base nutrients and four core supplements are pH balanced already—and formulated to stay that way when used together.

But if growers mix in products from competing lines, or if they use certain growing media such as rockwool or coco coir, they may need to apply pH Up or pH Down to get the nutrient solution back in the sweet spot. Supplements such as Sturdy Stalk may also throw off the pH.

The statements made herein are based on secondary scientific research into the raw materials in our products. They do not necessarily constitute product claims approved by fertilizer regulators. This information is intended for internal use as educational material the Emerald Harvest team on the science behind our products, including possible benefits and features.

