



**JH Biotech**  
Innovation for a Greener Earth

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# DKP 4.5 0-20-25

Liquid Phosphorus and Potassium

**DKP 45** is a clear, concentrated liquid phosphorus and potassium fertilizer. It contains 20% phosphate ( $P_2O_5$ ) and 25% potash ( $K_2O$ ). Each gallon of **DKP 45** contains 2.5 lbs of phosphate ( $P_2O_5$ ) and 3.1 lbs. of potash ( $K_2O$ ). **DKP 45** has the highest phosphate and potash value with the lowest salt index. Because of its low salt index, it is an excellent plant food for foliar application. It is also an excellent source of nutrients as a starter fertilizer. There is no nitrogen in **DKP 45** so it does not promote late season flushing of vegetation.

**DKP 45** is suitable for both soil and foliar applications. **DKP 45** can be applied to bare soil or it can also be applied to the foliage through sprinkler, drip, or flood irrigation. **DKP 45** is compatible with urea, UAN, and ammonium polyphosphate (10-34-0) solutions.

**DKP 45** is also compatible with most fertilizer solutions (such as 3-18-18 and 9-18-9) and pesticides. When mixing **DKP 45** with pesticides, add the **DKP 45** to water first, and then add the pesticides.



## POTASSIUM NUTRITION








Potassium is one of the macro-elements in plant nutrition. Within the plants, potassium is found primarily in the actively growing regions, such as buds, young leaves and root tips. It is generally low in seeds and mature tissues.

Potassium is present in all living cells, but it is not structurally a part of the cell, nor is it found in organic combinations. Potassium plays an important role in enzyme activation. A large number of enzymes are either completely dependent on or stimulated by potassium.

## Advantages of Using DKP 45

- Concentrated Phosphorus and Potassium
- Low salt index
- No chlorides
- Broad compatibility
- Easy application

## FUNCTIONS OF POTASSIUM:

-  **Enzyme Activation** - Potassium “activates” at least 60 different enzymes involved in plant growth.
-  **Stomatal Activity** - Plants depend upon potassium to regulate the opening and closing of stomates.
-  **Photosynthesis** - The electrical charge balance at the site of ATP production is maintained with potassium.
-  **Transport of Sugars** - Adequate supply of potassium helps keep the sugar produce processes and transportation systems functioning normally.
-  **Water and Nutrient Transport** - As with phloem transport systems, the role of potassium in xylem transport is often in conjunction with specific enzymes and plant growth hormones.
-  **Protein Synthesis** - The “reading” of the genetic code in plant cells to produce proteins and enzymes that regulate all growth processes would not be possible without adequate potassium.
-  **Starch Synthesis** - Under optimal level of potassium, starch is efficiently moved from sites of production to storage organs.

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