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A REVIEW

Morphological study of potassium solubilizers

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Abstract : Potassium is an elementary macronutrient besides Nitrogen and Phosphorus for growth of plants. It performs crucial metabolic activities like photosynthesis, activation of enzyme and protein synthesis. Rhizospheric microorganisms are the keysegments of viable agricultural ecosystems.These perform a vital characterbyresolving the unobtainable Potassium form and make accessible forroots of plants. Potassium concentrations which are soluble in the soil are generally less though above 90% Potassium present in the soil subsist in the form of insoluble rock. Solubilization of a certain configuration of K is done by effective K-solubilizers treatment to an obtainable structure of K in the soil. The obtained form of K should be simply absorbed by the plant. Some selected bacterial and fungal isolates based on their morphological characteristics were assessed for their potentiality to resolve K from insolvable K trace. The selected isolates were in the form of rods, Gram positive and motile. This review assays on the morphological study of K-solubilizers for their remarkable supremacy in forming zone of solubilization.

Key Words : Potassium solubilizers, Isolates, Macronutrients, Gram positive, Morphological

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