

Honours Project

Project title: Can Effluent Glycine Solution be Used to Grow Plants?

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Project

Glycine is an amino acid that is used in the Glycine Leaching Technology to leach base and precious metals. It contains nitrogen and due to its nature is easily adsorb into plant and animals. The exogenous application of amino acids significantly promotes growth in various plants (Mohammadipour and Souri, 2019; Souri, 2016). particularly under adverse environmental conditions like salinity and water stress. Various amino acids have been used in different forms as nutrient fertilisers (Noroozlo et al., 2019; Ram et al., 2024). The project aims to have a better understanding on the effect of Glycine effluent on plants growth.

Funding:

Draslovka (our industry partner) extends an invitation to university students in their Honours level to join in the pursuit of advancing knowledge in Glycine Leaching Technology. Draslovka is willing to put forward AU\$5,000 towards each project. This will be for all incidentals incurred during the undertaking of the project.

They also offer more comprehensive, in-depth projects for those who have successfully completed their Honours and wish to delve deeper and do further studies on GLT. Feel free to inquire for further details.

References:

- Mohammadipour, N., and Souri, M. K. (2019). Effects of different levels of glycine in the nutrient solution on the growth, nutrient composition, and antioxidant activity of coriander (*Coriandrum sativum* L.). *Acta Agrobotanica* **72**.
- Noroozlo, Y. A., Souri, M. K., and Delshad, M. (2019). Stimulation Effects of Foliar Applied Glycine and Glutamine Amino Acids on Lettuce Growth. *Open agriculture* **4**, 164-172.
- Ram, K., Ninama, A. R., Choudhary, R., and Solanki, B. P. (2024). A Comprehensive Review on Aminochelates: Advances and Applications in Plant Nutrition. *International Journal of Environment and Climate Change* **14**, 120-127.
- Souri, M. K. (2016). Aminochelate fertilizers: the new approach to the old problem; a review. *Open agriculture* **1**, 118-123.