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Extraction of mucilage from quince seeds and expansion of their use in medicine and pharmaceuticals

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The extraction of mucilage from quince seeds has been successfully achieved through a simple and cost-effective method [1-3]. The extracted mucilage has been characterized and found to possess excellent physicochemical properties (Fig.1.), making it a promising candidate for use in various applications in medicine and pharmaceuticals. The expansion of the use of quince seed mucilage in these fields can lead to the development of new and effective drug delivery systems, wound healing agents, and other medical products. Further research is needed to explore the full potential of quince seed mucilage and to optimize its extraction and purification processes. Overall, this study provides valuable insights into the potential of natural sources of mucilage and their applications in medicine and pharmaceuticals.

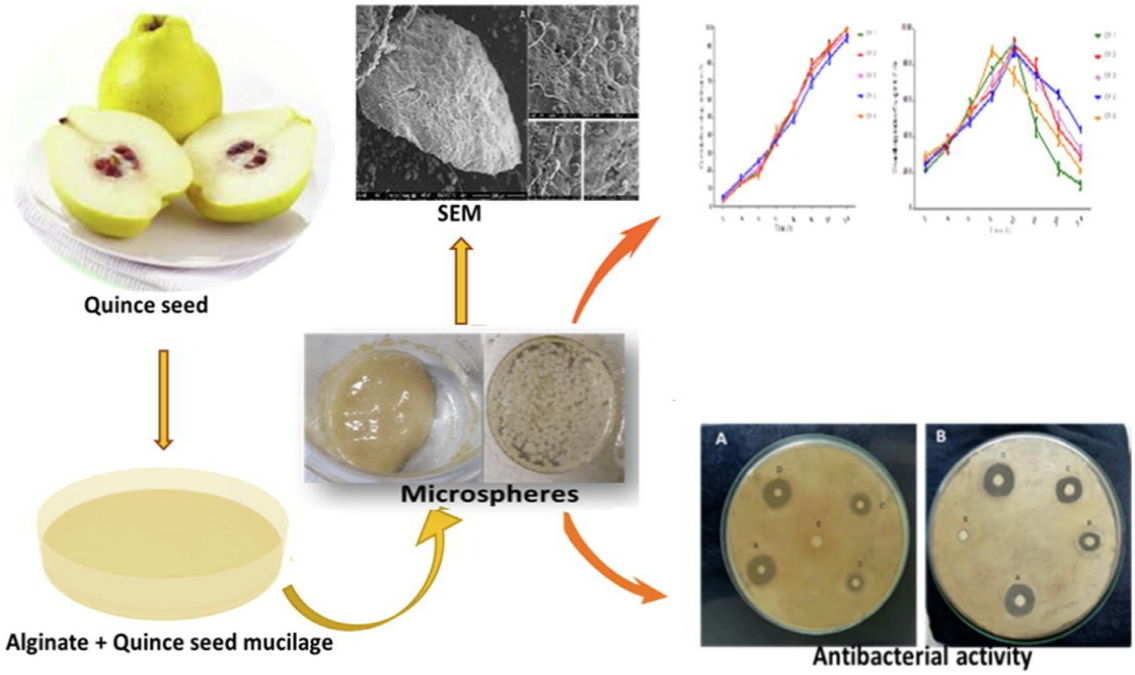

Fig.1. Extraction of mucus from quince seeds and physico-chemical, biological properties

[1] Muñoz, L. A., Cobos, A., Diaz, O., & Aguilera, J. M. (2012). Chia seeds: Microstructure, mucilage extraction and hydration. Journal of Food Engineering, 108(1), 216–224.
[2] Jindal M., Kumar V., Rana V., Tiwary A.K. Exploring potential new gum source aegle marmelos for food and pharmaceuticals: Physical, chemical and functional performance. Ind. Crop. Prod. 2013; 45: 312-318.
[3] Jouki M.; Mortazavi S.A.; Yazdi F.T.; Koocheki A. Characterization of antioxidant antibacterial quince seed mucilage films containing thyme essential oil. Carbohydr. Polym. 2014, 99, 537-546