

Application of Bio-processing in Oil Refining

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Bio-Processing in oil refining is typically thought of as the process of Enzymatic Degumming, which is now being applied to a range of different oil types. This paper focuses on recent research findings concerning enzymatic degumming and compares them to the existing procedures for both food oils and to feed stocks for bio-diesel production.

However, Bio-Processing is not just limited to degumming operations. In addition it will examine the possibilities of alternative treatment options with the aim of recovering more oil in processing than is currently the case with non enzymatic processes. In addition some recent research possibilities for the removal of free fatty acids to optimise bio-diesel production economy will be explored.