



The Potentialities of RFID-Based Traceability System in the Olives Post-Harvest Stage

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Abstract

Given that the major challenges for olive production and for producers are to improve fruit and oil quality, a plethora of analytical techniques are carried out for the purpose of traceability and validation of the authenticity of olive oil. However, due to many considerations, all of these methods remain only applied in the testing phase. Therefore, the olive oil supply chain actors have to cope with the new advancements in intelligent food logistics to address some traceability concerns. In this specific line of research, this paper aims to propose a theoretical framework for embedding RFID into the traceability system of olives in the post-harvest stage. Then, a discussion is centered on the potentialities of adopting RFID in this target process. RFID is a new emerging technology which opens up windows of opportunities for an effective and efficient traceability system design in the supply chain and logistics of a valuable commodity.

Keywords: *Olive Oil Supply Chain, Analytical Techniques, RFID, Traceability.*