

Title: **Accreditation process for a provider of proficiency testing for the physicochemical characterization of solid wastes.**

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The need to participate in interlaboratory comparisons to determine if an analytical laboratory is working properly and in accordance with an effective Quality Management System is of the utmost importance. Likewise, the analytical characterization of residues is, nowadays, necessary for all kind of organizations that generate residues since the European Legislation classifies them according to its physicochemical composition to keep track of their environmental impact. In Catalonia, waste management is under the responsibility of Agència de Residus de Catalunya (ARC) which collaborates with a group of laboratories that are accredited in ISO 17025 and that participate in interlaboratory comparisons, specifically proficiency testing, carried out by Mat Control to evaluate their analytical performance. Therefore, Mat Control is preparing all the documentation needed to be accredited in ISO 17043, which indirectly also includes ISO 17025, as a proficiency testing provider. Hence, this work consisted in reviewing the Mat Control's Quality Management System to identify the documents which are missing in order to fulfil the requirements for ISO 17043. Additionally, a part of experimental work has been performed for the preparation of proficiency testing item for the 2020 campaign.