

Determination of Moisture and Ash Content in Plant Raw Materials

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This study discusses the qualitative assessment of plant raw materials based on two crucial parameters: moisture and total ash content. The aim of the research is to determine the purity of the raw materials and their compliance with existing quality standards.

Within the scope of the study, the moisture content was determined using the drying method at a temperature of 105°C until a constant mass was achieved [1]. This process allows for the precise determination of water content in the raw material. To determine the total ash content, a gravimetric method was employed in accordance with European Pharmacopoeia standards. The incineration (ashing) of the samples was conducted in a muffle furnace at approximately 600°C. This indicator reflects the amount of mineral impurities and inorganic substances present in the raw material.

The results obtained are summarized and analyzed within the context of quality control, which is decisive for ensuring the safety and efficacy of plant-based products.

References:

{1}EUROPEAN PHARMACOPOEIA 11.0