

ENSURING SEED QUALITY: A MULTIDISCIPLINARY PERSPECTIVE ON LABORATORY TESTING

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Abstract

Seeds are fundamental to plant production. The seed industry and its representatives, at global, regional, and national levels, require analytical methods to meet trade requirements and manage quality-related risks. Standardized interpretation and reporting of laboratory test results are essential. Laboratory seed quality testing provides a rapid assessment of a seed lot's biological potential, specifically its cultural and utilization value. This comprehensive evaluation encompasses multiple parameters including physical purity, germination capacity, vigor assessment, and thousand seed weight determination. The aim of this paper is to describe and provide a multidisciplinary perspective on the most important seed quality indicators and the standardized tests required for commercial sowing seeds.

Keywords: methods, seeds, quality, testing