

Seed Testing: Principles and Practices

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An essential reference for students, seed technologists, researchers, and seed industry personnel, this comprehensive guide outlines the most widely performed modern seed quality tests, explores the principles behind them, the history of seed testing, why seeds are tested and when, and sampling, sub-sampling, seed laboratory management, accreditation, and seed quality assurance programs. The authors describe statistical applications to seed testing and tolerances, and they provide a detailed morphological and structural description of seed formation and development. The book examines the testing of genetic traits and transgenic seeds, including DNA and protein genetic purity tests, and cultivar purity identification for conventional seeds. In addition to the most common seed purity and viability tests, tests for seed and seedling vigor, seed-borne diseases and seed moisture determination are also discussed.

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Editorial Review

Review

A long overdue comprehensive update of seed technology . . . This book promises to be an essential volume for training and reference by seed technologists and an important resource that should be in the library of everyone concerned with seed quality management.
—Wayne Guerke, Consultant in seed testing, regulation, and quality assurance; Formerly Director of Seed Quality Testing and Regulatory Program for the Georgia Department of Agriculture (retired)

Seed Testing: Principles and Practices fills a long-standing need for a comprehensive reference book on all aspects of seed testing. Anyone involved in seed germination research or seed testing will want a copy of this book.
—Gregory E. Welbaum, Professor and Associate Head, Department of Horticulture, Virginia Tech

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