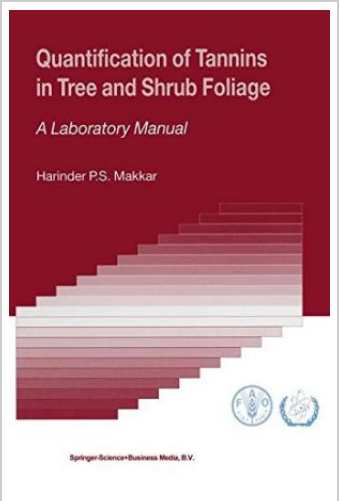

Quantification of Tannins in Tree and Shrub Foliage

By Makkar, Harinder P.S.

Book Condition: New. Publisher/Verlag: Springer Netherlands | A Laboratory Manual | Here is the most complete guide available for the analysis of tannins. A battery of tannin methodologies is presented in a simple, clear and easy-to-understand manner. This unique guide covers chemical, biological and radio isotopic tannin assays. Comprehensive step-by-step protocols are presented for each method. The protocols enable non-specialists and specialists alike to implement the methods easily in the laboratory. It is an ideal laboratory manual for research scientists, graduate students, and laboratory personnel working in the fields of animal nutrition, soil nutrient management, wild life-plant interactions, and plant breeding. | 1. Chemical, Protein Precipitation and Bioassays for Tannins, Tannin Levels and Activity in Unconventional Feeds, and Efects and Fate of Tannins.- 2. Treatment of Plant Material, Extraction of Tannins, and an Overview of Tannin Assays Presented in the Manual.- 3. Measurement of Total Phenolics and Tannins Using Folin-Ciocalteu Method.- 4. Determination of Condensed Tannins (Proanthocyanidins).- 5. Gallotannin Determination by Rhodanine Assay.- 6. Gallotannin Determination Using HPLC.- 7. Determination of Hydrolysable Tannins (Gallotannins and Ellagitannins) after Reaction with Potassium Iodate.- 8. Determination of Protein-Precipitable Phenolics.- 9. Protein-Binding Capacity by Filter Paper Assay.- 10. Radial Diffusion Assay.- 11. Tannin Bioassay.-...

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