

Aoac Official Methods Of Analysis 15th

In recent years, there has been a dramatic increase in grain-based fuel ethanol production in North America and around the world. Whether such production will result in a net energy gain or whether this is sustainable in the long term is under debate, but undoubtedly millions of tons of non-fermented residues are now produced annually for global trade in the form of distillers dried grains with solubles (DDGS). Consequently, in a short period of time a tremendous amount of research has been conducted to determine the suitability of ethanol coproducts for various end uses. *Distillers Grains: Production, Properties and Utilization* is the first book of its kind to provide in-depth, and up-to-date coverage of Historical and current status of the fuel ethanol industry in the U.S. Processing methods, scientific principles, and innovations for making fuel ethanol using grains as feedstock Physical and chemical properties of DDGS, assay methodologies for compositional analyses, and mycotoxin occurrence in DDGS Changes during processing (from grains to DDGS) and analysis of factors causing variations in compositional, nutritional, and physical values Various traditional, new, and emerging uses for DDGS (including feed for cattle, swine, poultry, fish, and other animals, feedstocks for cellulosic ethanol, biodiesel, and other bioenergy

production, and substrates for food and industrial uses) Appealing to all who have an interest in fuel ethanol production, distillers grains, and their uses, this comprehensive reference sharpens the readers' understanding of distillers grains and will promote better utilization of ethanol coproducts. Animal and food scientists, feed and food technologists, ethanol plant managers and technicians, nutritionists, academic and governmental professionals, and college students will find the book most useful.

Agricultural liming materials. Fertilisers. Plants. Disinfectants. Hazardous substances. Pesticide formulations. Animal feed. Baking powders and baking chemicals. Beverages-distilled liquors. Beverages-malt beverages and brewing materials. Beverages-wines. Beverages-nonalcoholic and concentrates. Cacao bean and its products. Cereal foods. Coffee and tea. Dairy products. Eggs and egg products. Fish and other marine products. Flavors. Food additives-direct. Food additives-indirect. Fruits and fruit products. Gelatin, dessert preparations, and mixes. Meat and meat products. Metals and other elements as residues in foods. Natural poisons. Nuts and nut products. Oils and fats. Pesticide residues. Spices and other condiments. Sugar and sugar products. Vegetable products, processed. Waters, mineral and salt. Color additives. Cosmetics. Drugs. Drugs and feed additives in animal tissues. Drugs in feeds. Vitamins and other

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nutrients. Extraneous materials-isolation. Microbiological methods. Microchemical methods. Radioactivity. Spectroscopic methods. Standard solutions and materials. Laboratory safety.

The Official Methods of AnalysisSM, 19th Edition (print), is now available for purchase. The print edition is a 2-volume set (hard cover bound books; not a subscription).

Following are highlights in the new edition: * 31 Methods adopted as First Action * 16 SMPRs developed and approved by AOAC stakeholder panels * 7 Methods with major modifications * 10 Methods with minor editorial revisions * 7 New appendices on guidelines for SMPRs, voluntary consensus standards, probability of detection, validation of microbiological methods for foods and environmental surfaces, validation of dietary supplements and botanicals, single-laboratory validation of infant formula and adult nutritionals, and validation of food allergens * A new subchapter on General Screening Methods (Chapter 17, subchapter 15) that includes screening methods for bacteria * Updated information on program components of the Official MethodsSM process (found in the front matter)

Official Methods of Analysis of AOAC International
Official Methods of Analysis of AOAC International
Official methods of analysis of the Association of Official Analytical Chemists
Includes March 1997 Supplement.

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