

Application Note 13 Method Aocs Cd 16b 93 Fat

Application Note 13 Method Aocs Cd 16b 93 Fat Application Note 13 Method AOCS CD 16b93 for Fat Determination 1 This application note provides a detailed overview of Method AOCS Cd 16b93 a widely accepted standard method for determining the fat content in various materials particularly in the field of oils and fats The method employs a solvent extraction technique using diethyl ether as the solvent followed by evaporation and gravimetric analysis This note will cover the principles of the method its applications procedural steps equipment required potential sources of error and safety considerations 2 Method Principle Method AOCS Cd 16b93 is based on the principle of solvent extraction The method involves the extraction of fat from the sample using diethyl ether as the solvent Diethyl ether is a highly volatile and flammable solvent that effectively dissolves fat and lipids The extracted fat is then separated from the solvent and weighed to determine the fat content of the original sample 3 Applications Method AOCS Cd 16b93 is widely used in various industries including Food Industry Determining the fat content in a wide range of food products including oils fats dairy products meat and bakery items Oil and Fat Industry Assessing the quality of oils and fats used in food production biofuel production and other industrial applications Feed Industry Analyzing the fat content in animal feed to ensure proper nutrition and energy content Research and Development Determining the fat content in various materials for research purposes including studies on food composition nutritional value and processing effects 4 Procedure The following steps are involved in the application of Method AOCS Cd 16b93 41 Sample Preparation Preparation of Sample The sample must be finely ground or homogenized to ensure uniform 2 extraction Moisture Determination Moisture content of the sample should be determined beforehand to calculate the fat content on a dry weight basis Weighing the Sample A known weight of the prepared sample is weighed accurately using an analytical balance 42 Extraction Extraction Apparatus The Soxhlet extractor is the most commonly used apparatus for fat extraction It consists of a thimble to hold the sample a flask to collect the extract and a condenser to condense the solvent vapor Solvent Diethyl ether is the solvent of choice for fat extraction It is important to use high quality anhydrous diethyl ether to minimize potential errors Extraction Process The weighed sample is placed in the thimble and the extraction process is started The solvent is heated and its vapor passes through the sample extracting the fat The condensed solvent then drips back into the flask carrying the extracted fat This process is repeated until all the fat is extracted from the sample 43 Separation and Drying Evaporation After extraction the solvent is evaporated from the extract using a rotary evaporator or by heating the flask under a fume hood Drying The remaining residue which contains the extracted fat is dried in an oven at 100/105C until constant weight is achieved 44 Calculation Fat Content The fat content is calculated by dividing the weight of the dried fat residue by the original weight of the sample multiplied by 100 to express the result as a percentage 5 Equipment The following equipment is typically required for the application of Method AOCS Cd 16b93 Soxhlet Extractor A standard Soxhlet extractor with appropriate size thimble and flask Rotary Evaporator For efficient solvent evaporation Drying Oven For drying the extracted fat residue Analytical Balance For accurate weighing of the sample and fat residue Heating Mantle For heating the solvent in the Soxhlet extractor Fume Hood For safe handling of diethyl ether and other volatile chemicals Beaker and Flasks For sample preparation and solvent handling 3 Thimble Holder To secure the thimble in the Soxhlet extractor Condenser To condense the solvent vapor in the Soxhlet extractor Desiccator To store the dried fat residue before weighing 6 Sources of Error Several factors can influence the accuracy of the fat determination using Method AOCS Cd 16b93 These factors include Incomplete Extraction

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