

# Directive

9180.56

11-23-09

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## TESTING CORN GLUTEN FEED FOR STARCH, FAT, AND PROTEIN

### 1. PURPOSE

This directive establishes guidelines for testing corn gluten feed for starch, fat, protein, and moisture content.

### 2. REPLACEMENT HIGHLIGHTS

This directive supersedes FGIS Program Directive 9180.56, dated 5-1-97. This directive is being revised to update the Fees section, along with minor editorial changes, but does not revise policy.

### 3. BACKGROUND

Corn gluten feed is that part of the corn remaining after the extraction of starch, gluten, and germ through a wet milling process. Corn gluten feed is a medium protein, medium energy ingredient and is usually presented in the form of pellets. It is widely used in complete feeds or concentrates for dairy and beef cattle, poultry (layers and turkey breeders), swine, and as a carrier for added micro nutrients. The product has become one of the major agricultural exports of the United States.

An agreement between the Corn Refiners Association and the European Community specifies that corn gluten feed imported from the United States must conform to the following maximum limits on a dry matter basis:

#### **Factor Maximum Limits**

Starch.....	28 percent
Fat.....	4.5 percent
Protein.....	40 percent

In addition, each certificate must report the moisture level since other specifications are stated on a dry matter basis.

#### **4. POLICY**

The Technical Services Division (TSD), Quality Systems and Services Unit (QSS) will test samples of corn gluten feed for starch, fat, protein, and moisture content under the authority of the Agricultural Marketing Act of 1946, as amended (AMA). In order to facilitate the marketing of corn gluten feed in domestic and foreign commerce, the Federal Grain Inspection Service (FGIS) will provide testing services to interested parties upon request.

#### **5. REQUEST FOR SERVICE**

Persons interested in corn gluten feed testing may contact QSS, a local FGIS field office, or an authorized cooperator to arrange for service. Applicants may request a separate test for starch, fat, protein, moisture content, or any combination. When requesting official sampling services, the applicant must ensure that the lot is accessible and indicate the location of the product and the kind of test needed. The following service options are available:

- a. Lot Inspection Service. This service involves FGIS or an authorized cooperator obtaining a representative sample from an identified lot using approved procedures for processed commodities and forwarding the sample to QSS for testing.
- b. Submitted Sample Inspection Service. This service consists of an applicant obtaining and forwarding a sample to QSS. QSS is responsible for performing the requested test, maintaining a file sample, issuing the certificate, and billing the applicant for the services.

#### **6. SAMPLE SIZE**

A minimum of 500 grams of corn gluten feed is needed to complete an analysis for starch, fat, protein, and moisture. For submitted samples sent to QSS by the applicant, if a smaller sample size is submitted, QSS will only provide quality information on specific factors (i.e., starch, fat, moisture, etc.) for which the sample size is large enough.

When official sampling services are provided, FGIS/cooperators will forward samples for testing to QSS and maintain representative file samples.

#### **7. CERTIFYING RESULTS**

- a. When an applicant requests conformance certification to specific maximum limits (i.e., 28 percent starch, 4.5 percent fat, and 40 percent protein) and the test results indicate that the product meets these requirements, FGIS will certify results using the following statement:

“This lot/sample of corn gluten feed conforms to a maximum 28 percent starch, 4.5 percent fat, and 40 percent protein on a dry matter basis. Moisture \_\_\_\_ percent.”

However, if the results are greater than the contract limits on any constituent (i.e., starch, fat, protein, etc.), certify results as follows:

“This lot/sample of corn gluten feed does not conform to a maximum 28 percent starch, 4.5 percent fat, and 40 percent protein on a dry matter basis. Moisture \_\_\_\_ percent.”

FGIS Certificate (CRT) users should enter inspection results as follows in order to report actual results on the data record:

Factor	Factor Result	UoM	Factor Remarks	Include in Certificate
Starch	25.3	%	dry matter basis	None
Fat	4.2	%	dry matter basis	None
Protein	28.6	%	dry matter basis	None
Moisture	8.4	%		None

See Attachment for a certificate example.

- b. When the applicant requests individual tests (i.e., starch, fat, moisture, etc.) certify results as follows:

“(Factor with result percent) on a dry matter basis. Moisture \_\_\_\_ percent.”

Example:

“Starch 27 percent and fat 3.0 percent on a dry matter basis. Moisture \_\_\_\_ percent.”

- c. The following certificates are used to report quality information:

- (1) Form FGIS-993, Commodity Inspection Certificate. Use this certificate to report results when samples are obtained by FGIS or authorized cooperator; or
- (2) Form FGIS-994, Commodity Certificate - Submitted Sample Inspection. Use this certificate to report results for submitted samples.

**8. REVIEW INSPECTIONS**

Applicants may request a retest or appeal inspection service on samples of corn gluten feed based on official file samples or new samples. Submitted sample review inspections are limited to the file sample. Only one retest is permitted on any original result and one appeal is allowed on any original or retest result.

**9. FEES**

FGIS will assess a fee for testing corn gluten feed for fat, protein, and moisture in accordance with Title 7, Part 868, Section 868.90, of the Code of Federal Regulations.

**NOTE:** Starch will be performed at the laboratory hourly rate based upon approximately one hour per sample.

Authorized cooperators' fees for sampling services may vary. Consequently, applicants must contact their respective cooperators, as applicable, for service costs.

**10. QUESTIONS**

Direct any questions concerning this directive to the Policies, Procedures, and Market Analysis Branch (PPMAB) at (202) 720-0228.

*/s/ Robert Lijewski*

Robert Lijewski, Acting Director  
Field Management Division



FORM FGIS-994  
JAN 07



UNITED STATES DEPARTMENT OF AGRICULTURE  
FEDERAL GRAIN INSPECTION SERVICE  
AGRICULTURAL MARKETING ACT OF 1946

Approved OMB No. 0580-0013

**COMMODITY SUBMITTED SAMPLE INSPECTION**

**ORIGINAL**

**OFFICIAL PINK CERTIFICATE**

**US-TSDO-1-00017**

**EXAMPLE ONLY - NOT FOR OFFICIAL USE**

NOT NEGOTIABLE

LEVEL OF INSPECTION:  
Original

ISSUED AT:  
KANSAS CITY, MO

DATE OF SERVICE:  
October 17, 2009

IDENTIFICATION:  
223298

**NOT OFFICIALLY SAMPLED**

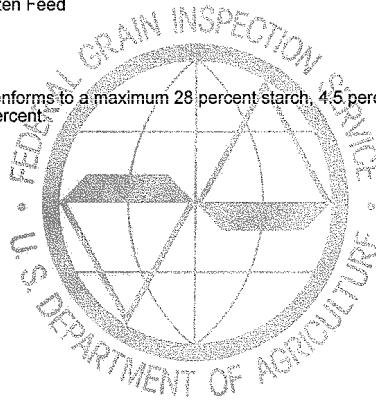
COMMODITY: Corn Gluten Feed

RESULTS:

REMARKS:

This sample of corn gluten feed conforms to a maximum 28 percent starch, 4.5 percent fat, and 40 percent protein on a dry matter basis. Moisture 8.4 percent.

END OF REMARKS



The sample identification and inspection results shown on this certificate are assigned only to the quantity in the sample and not to any identified carrier, container, or lot from which the sample may have been taken.

APPLICANT NAME: US Corn Products

I CERTIFY THAT THE SERVICES SPECIFIED ABOVE WERE PERFORMED WITH THE RESULTS STATED.

NAME OR SIGNATURE: William E Bates

ISSUING OFFICE: FGIS - Analytical Services Group

This certificate is issued under the authority of the Agricultural Marketing Act of 1946, as amended (7 U.S.C. 1621 et seq.), and the regulations thereunder (7 CFR 906.1 et seq.), and is receivable in all courts of the United States as prima facie evidence of the truth of the statements therein contained. This certificate does not excuse failure to comply with the provisions of the Federal Food, Drug, and Cosmetic Act, or other Federal Laws.  
WARNING: Sec. 205(j) of the Agricultural Marketing Act of 1946 provides that anyone who shall knowingly falsify, make, issue, pass, or receive any official certificate, or aid, assist, or be party to such actions, is subject to a fine of not more than \$1000 or imprisonment for not more than 1 year, or both.  
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information is 0580-0013. The time required to disclose this recordkeeping requirement is to average 83.206 hours per recordkeeper annually, including the time to retain such records, and to notify, disclose, and report to third parties such recordkeeping requirements.

**EXAMPLE ONLY - NOT FOR OFFICIAL USE**