

# Program Notice

FGIS-PN-17-04

September 11, 2017

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## APPROVAL OF NEW NEAR INFRARED TRANSMITTANCE (NIRT) INSTRUMENT

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## 1. PURPOSE

This program notice announces that the Agricultural Marketing Service (AMS), Federal Grain Inspection Service (FGIS) has approved the FOSS Model Infratec Nova NIRT instrument for official testing services of barley protein; corn oil, protein, and starch; soybean protein and oil; and wheat protein and wet gluten under the United States Grain Standards Act (USGSA).

## 2. BACKGROUND

Testing barley protein; corn oil, protein, and starch; soybean protein and oil; and wheat protein and wet gluten content as “official criteria” is authorized under Section 7(b) of the USGSA, as amended. FGIS is responsible for officially determining and certifying, monitoring the accuracy, and approving the official equipment used for determining barley protein; corn oil, protein, and starch; soybean protein and oil; and wheat protein and wet gluten content.

FGIS evaluated and determined that the Infratec Nova NIRT instrument constitutes an engineering enhancement of the previously approved Infratec 1241 and provides results equivalent to those of previously approved model.

## 3. APPROVED NIRT INSTRUMENTS AND APPLICATIONS

The following table lists the NIRT models approved and calibration method that may be used for official determinations by grain and constituent.

| Grain and Constituent(s)   | Infratec 1229 with IRIS software and Infratec 1241 | Infratec Nova |
|--|--|---------------|
| Wheat (ANN <sup>1</sup> )<br>Protein<br>Wet gluten   | yes  | yes           |
| Barley (ANN)<br>Protein  | yes  | yes           |
| Soybean (ANN)<br>Protein<br>Oil  | yes  | yes           |
| Corn (PLS <sup>2</sup> )<br>Oil<br>Protein<br>Starch   | yes  | yes           |
| <sup>1</sup> Artificial Neural Network (ANN) calibration<br><sup>2</sup> Partial Least Squares (PLS) calibration |  |               |

#### **4. EFFECTIVE DATE**

This program notice is effective upon receipt.

#### **5. FILING INSTRUCTIONS**

File a copy of this program notice with the NIRT Handbook. The handbook will be revised at a later date to include these changes.

#### **6. QUESTIONS**

Direct any questions concerning this program notice to the Inspection Instrumentation Branch at (816) 891-0401.