



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 15/1/151
Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the
Perten Model 8100 Grain Protein Measuring Instrument.

In Technical Schedule No 15/1/151 dated 29 July 2005;

1. Clause **1. Description of Pattern** should be amended to read, in part:
“... to determine the protein content of a sample of barley or wheat
grain, **and display the value in increments of 0.1%.**”
2. Clause **1.2 Markings**, should be amended by replacing the text with the
following:

“Instruments carry the following markings:

Manufacturer's mark, or name written in full
Pattern approval mark for the instrument	NSC No 15/1/151
Approved operating range	... to ...% protein
Model designation
Serial number of the instrument
Grain type”

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. G. T.', is written over the signature line.



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 15/1/151
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following change is made to the approval documentation for the
Perten Model 8100 Grain Protein Measuring Instrument.

Certificate of Approval No 15/1/151 and its Technical Schedule, both dated 24 June
2004, are superseded by the Certificate and Technical Schedule attached herein,
and may be destroyed.

(Note that the attached documentation corrects some minor typographical errors and
also now includes references to 'ground' or to 'whole' grain, as appropriate.)

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be "J. G. T.", written in a cursive style.



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

No 15/1/151

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

Perten Model 8100 Grain Protein Measuring Instrument.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval does NOT permit the verification/certification of new instruments. It does not become subject to review.

Instruments purporting to comply with this approval shall be marked with approval number 'NSC 15/1/151'.

This approval applies only to existing instruments in the field; they may be verified/certified, and verified/certified again after repairs, at the discretion of the relevant trade measurement authority.

Instruments may be relocated and reinstalled but shall not be altered in any way other than to replace damaged components with equivalent components.

The National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

DESCRIPTIVE ADVICE

Pattern: approved 23 June 2004

- A Perten model 8100 measuring instrument used to determine the protein content of a ground sample of barley or wheat grain.

Variant: approved 23 June 2004

1. A Perten model 9100 measuring instrument used to determine the protein content of a whole grain sample of barley or wheat grain.

Technical Schedule No 15/1/151 describes the pattern and variant 1.

Variant: approved 14 June 2006

2. A Perten model 8620 measuring instrument used to determine the protein content of a ground sample of barley or wheat grain.

Technical Schedule No 15/1/151 Variation No 1 describes variant 2.

FILING ADVICE

Certificate of Approval No 15/1/151 dated 29 July 2005, is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 15/1/151 dated 15 June 2006

Technical Schedule No 15/1/151 dated 29 July 2005 (incl. Test Procedure)

Technical Schedule No 15/1/151 Variation No 1 dated 15 June 2006

Notification of Change No 1 dated 29 July 2005

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, appearing to be 'J. H. T.', is located in the bottom right corner of the page.

TECHNICAL SCHEDULE No 15/1/151

Pattern: A Perten model 8100 Grain Protein Measuring Instrument

1. Description of Pattern

The pattern is a Perten model 8100 measuring instrument used to determine the protein content of a ground sample of barley or wheat grain.

Instruments may be used with either a Perten model Laboratory Mill 120 or Laboratory Mill 3100 grain grinder.

1.1 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.2 Markings

The measuring instrument and the grinder shall be marked with approval number 'NSC 15/1/151'.

2. Description of Variant 1

A Perten model 9100 measuring instrument used to determine the protein content of a whole grain sample of barley or wheat grain.

TEST PROCEDURE

Instruments tested for initial verification shall comply with the certificate of approval and technical schedule, and the maximum permissible errors for initial and subsequent verifications/certifications at the operating conditions in effect at the time of verification.

Instruments shall comply with the requirements of, and shall be tested in conjunction with any relevant tests in, NSC document *NSC M8, Pattern Approval Specifications for Protein Measuring Instruments for Grain*.

The serial number the measuring instrument and the grinder, where used, shall be recorded at the time of any verification/certification.

Maximum Permissible Error at Verification/Certification

The maximum permissible error applied during a verification/certification test are:

- ±0.5% of the quantity of barley measured; and
- ±0.4% of the quantity of wheat measured.

TECHNICAL SCHEDULE No 15/1/151

VARIATION No 1

Pattern: A Perten model 8100 Grain Protein Measuring Instrument

1. Description of Variant 2

A Perten model 8620 measuring instrument used to determine the protein content of a ground sample of barley or wheat grain.

Instruments may be used with either a Perten model Laboratory Mill 120 or Laboratory Mill 3100 grain grinder.