DRAFT EAST AFRICAN STANDARD

Sorghum seed — Requirements for certification

EAST AFRICAN COMMUNITY
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Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

In order to achieve this objective, the Community established an East African Standards Committee mandated to develop and issue East African Standards.

The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the private sectors and consumer organizations. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the procedures of the Community.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 012, Seeds and propagation material.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

This second edition cancels and replaces the first edition (EAS 822:2015), which has been technically revised.
Sorghum seed — Requirements for certification

1 Scope

This Draft East African Standard specifies the certification requirements for the production of pre-basic, basic and certified seed of sorghum (*Sorghum bicolor* (L.) *Moench*). It includes requirements for eligible varieties, field standards, field inspections, seed sampling, laboratory standards, certificates, packaging, labelling, and post control tests.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

*International Seed Testing Association (ISTA) Rules*

*OECD Seed Schemes: Guidelines for Control Plot Tests and Field Inspection of Seed Crops*

*OECD Schemes for Varietal Certification or the Control of Seed Moving in International Trade*

*UPOV Test guidelines for sorghum*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in ISTA, UPOV and OECD and the following shall apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:


— ISO Online browsing platform: available at [http://www.iso.org/obp](http://www.iso.org/obp)

3.1 **seed test certificate**

legal document issued by the national seed certification authority, which states that a seed lot has met the prescribed requirements set in this standard

3.2 **distinctness**

variety is deemed to be distinct if it is clearly distinguishable in at least one character from any other variety whose existence is a matter of common knowledge at the time of filing the application for registration.

3.3 **field**

defined and identifiable area of land or facility that is used to produce a seed crop under the Seed Certification Scheme
3.4 field inspection
eexamination of a field and or seed crop, by an inspector to confirm that the minimum requirements for seed certification have been met

3.5 field number
number assigned to the field when the application form for certification is submitted

3.6 germination
emergence and development of a seedling to a stage where the aspect of its essential structures indicates whether or not it is able to develop further into a satisfactory plant under favourable conditions in field

3.7 grower
person or entity registered to produce seed

3.8 hybrid variety
type of variety produced by the controlled crossing of parent lines in a way prescribed by the breeder or maintainer

3.9 inert matter
seed units and all other matter and structures not defined as pure seed or other seeds

3.10 isolation
minimum distance or time between two crops of sorghum that is required to prevent contamination either mechanically or by cross pollination

3.11 inspector
authorized official or accredited entity responsible for carrying out seed certification activities

3.12 label
tag or other device that is attached to or written, stamped or printed on any container of seed or that accompanies any lot of bulk seed and which describes the kind of seed and any other information required by relevant laws and regulations

3.13 previous cropping
minimum period (seasons or years) that must elapse between the production of a crop of the same or a closely-related species in a field and the production of a crop entered in the certification scheme in the same field

3.14 maintainer
person or organisation responsible for the production or maintenance of a bred variety included in a national list of varieties eligible for certification, and ensure that the variety remains true to type throughout its full life-span.

3.15 national seed certification authority
designated authority responsible for conducting seed certification processes in the country
3.16 noxious weed
weed species, the seed of which is difficult to separate during processing or has undesirable effects on the crop produced

3.17 off-type
plant of the same species which does not exhibit the recognised and acceptable characteristics of the variety being grown

3.18 open pollinated variety (OPV)
variety that is normally produced by natural (un-controlled) pollination

3.19 other seeds
seeds of any plant species other than that of the crop sample that is being tested

3.20 parental lines
population or lines used by a breeder to develop and maintain a variety

3.21 post-control plot
small plot where a representative sample of a seed lot is grown to determine the identity and purity of a variety

3.22 pure seed
specie stated by an applicant, or found to predominate in a test, and includes all botanical varieties and cultivars of that species, including intact seeds and pieces of seed units larger than one-half their original size.

3.23 Variety registration
inclusion of an approved new variety in a national variety catalogue when it has been tested and satisfied the requirements for distinctness, uniformity, stability, and has value for cultivation and use

3.24 rouging
removal of off-types, other varieties, and diseased or any other unwanted plants from a seed crop

3.25 seed certification
process by which the quality and identity of a seed lot is assured through official control by designated seed certification authority

3.26 seed lot
defined quantity of seed bearing the same reference number and for which the origin, production history and identity is known

3.27 stability
state of a variety where distinguishing characteristics remain unchanged after repeated growing cycles

3.28 uniformity
state of a variety subject to the variation that may be expected from the particular features of its propagation, to remain sufficiently homogeneous in its relevant characteristics
3.29
variety
assemblage of cultivated plants that is clearly distinguished from other varieties by any characters (morphological, physiological, cytological, chemical, or others) and which retains its distinguishing characteristics when reproduced by the normal means for the crop and variety.

3.30
variety catalogue
detailed list of varieties that have been registered by a national designated authority.

3.31
carryover seed
seed produced in previous season and stored for one or more cropping seasons/ or past its valid test duration subject to meeting the requirements of the standard upon retesting.

3.32
pre-basic seed
seed that is derived from breeder seed that is used to produce basic seed through one cycle of multiplication.

Note 1 to entry: breeder seed is an original parental material produced by the breeder and which is multiplied through one or more generations to produce pre-basic seed.

3.33
basic seed
seed that has been produced from pre-basic seed that is used for the production of certified seed.

3.34
Seed sampler
person authorized by the national designated seed certification authority to do seed sampling.

3.35
certified seed
seed that is produced from basic seed through one or two generations of multiplication.

3.35.1
certified seed 1st generation (C1)
first generation of seed derived from basic seed.

3.35.2
certified seed 2nd generation (C2)
certified seed, 1st generation which is multiplied once.

4 Symbols (and abbreviated terms)
- DUS: Distinctness, Uniformity and Stability.
- OECD: Organization for Economic Co-operation and Development.

5 General requirements

5.1 Eligible varieties

5.1.1 Key parameters required to implement this standard are variety descriptors, genetic purity of seed sown, field standards, laboratory standards and post-control tests.
5.1.2 Varieties eligible for seed certification shall be those that have been examined, tested and registered in at least one member country of the EAC and are included in the national variety catalogue of that country. The country adopting the variety shall test it for at least one season.

5.1.3 Examination of a candidate variety for certification shall be undertaken in accordance with UPOV and OECD Seed scheme. The official descriptor of the variety shall be made available for the national seed certification authority and its inspectors to check the identity and purity of the variety during field inspections.

5.1.4 Each national seed certification authority shall keep the official descriptor of the varieties it has registered in hard and electronic copies and these shall be made available within the EAC on request.

5.2 Inspection and laboratory testing

5.2.1 Application for inspection

A grower shall apply for inspection of a seed crop within thirty (30) days after planting by filling the form with the information as prescribed in Annex A”. The minimum information for an application for inspection of a seed crop shall include following:

- name, address and contact details of the applicant;
- crop and variety to be sown;
- physical location;
- area and reference number of the field, and its cropping history for the past two cropping seasons;
- class of seed to be produced; and
- registration number of the grower.

5.2.2 Information and records related to the previous cropping history, origin of seed planted, and field inspections shall be kept and used for certification to ensure full traceability of quality, genetic identity and purity of the seed harvested.

5.2.3 The inspection of seed crops shall be done as guided by the OECD Seed Schemes: Guidelines for Control Plot Tests and Field Inspection of Seed Crops. If the field is found to be in conformity with the standards stated in Table 1 or Table 2 and is approved, the harvested seed shall be identified, transported, stored, and processed.

5.2.4 The seed lot shall be sampled and tested in an official or authorized laboratory. The sampling and testing of seed lots shall be done in accordance with the relevant procedures described in the ISTA rules.

5.2.5 A seed lot that conforms to the standards set out in Table 3 or Table 4 shall be given a seed test certificate and a unique reference number to confirm its status under the certification scheme. One part of the seed sample shall be retained for sowing in a post-control plot.

6 Seed classes

For the purpose of this standard, the following classes of seed shall apply:

a) pre-basic seed;

b) basic seed; and

c) certified seed:

   i. 1st generation (C1); and
7 Field requirements

7.1 Pre basic and basic seed shall be produced under the responsibility of the breeder or maintainer.

7.2 Certified seed shall be produced in not more than two generations for OPVs and one generation for hybrids.

7.4 A field producing a seed crop of open-pollinated sorghum varieties shall be approved for certification if it complies with the requirements given in Table 1.

7.5 A field producing a seed crop of hybrid sorghum shall be approved for certification if it complies with the requirements given in Table 2.

7.6 Fields may be rejected for certification because of unsatisfactory conditions caused by noxious weeds, poor growth, poor crop stands, incidence and severity of disease of importance, insect damage, and any other condition that prevents accurate inspection or creates doubt as to the identity of the variety or the control of pollination in the crop.

Table 1 — Field requirement standards for seed crops of open-pollinated varieties of sorghum

<table>
<thead>
<tr>
<th>S/N</th>
<th>Variable</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Previous cropping (seasons before), min.</td>
</tr>
<tr>
<td>ii.</td>
<td>Isolation(^a) m, min.</td>
</tr>
<tr>
<td>iii.</td>
<td>Off types, %, max.</td>
</tr>
<tr>
<td>iv.</td>
<td>Maximum number of plants infected with sorghum smut \textit{Sphacelotheca cruenta per 1 000 plants} \textit{at final inspection}</td>
</tr>
<tr>
<td>v.</td>
<td>Maximum number of plants infected with ergot \textit{(Clariceps sorghi) per 1 000 plants} \textit{at final inspection}</td>
</tr>
<tr>
<td>vi.</td>
<td>Maximum number of plants infected with sorghum downy mildew \textit{per 1 000 plants} \textit{at final inspection}</td>
</tr>
<tr>
<td>vii.</td>
<td>Number of noxious weed, max</td>
</tr>
<tr>
<td>viii.</td>
<td>Number of inspections, min</td>
</tr>
</tbody>
</table>

**NOTE** Isolation by time may be possible if minimum time enough to separate the flowering phase of two varieties or grade of a crop species is observed.

\(^a\) In all cases these isolation distances also apply to other sorghum species, such as \textit{S. sudanense} and forage sorghum varieties that can cross-pollinate with \textit{S. bicolor}. 
Table 2 — Field requirement standards for seed crops of hybrid sorghum

<table>
<thead>
<tr>
<th>S/N</th>
<th>Variable</th>
<th>Pre-basic seed</th>
<th>Basic seed</th>
<th>Certified seed</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Previous cropping (seasons before), min.</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ii.</td>
<td>Isolation*, m, min.</td>
<td>400</td>
<td>400</td>
<td>200</td>
</tr>
<tr>
<td>iii.</td>
<td>Off-type, %, max.</td>
<td>Female</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>iv.</td>
<td>Maximum number of plants infected with sorghum smut Sphacelotheca cruenta, per 1 000 plants — at final inspection</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>v.</td>
<td>Maximum number of plants infected with sorghum downy mildew, per 1 000 plants — at final inspection</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>vi.</td>
<td>Maximum number of plants infected with ergot (Clariopsis sorghi) per 1 000 plants — at final inspection</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>vii.</td>
<td>Number of noxious weed, max</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>viii.</td>
<td>Number of inspection, min</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE** Isolation by time may be possible if minimum time enough to separate the flowering phase of two varieties or grade of a crop species is observed

a In all cases these isolation distances also apply to other sorghum species, such as S. sudanense and forage sorghum varieties that can cross-pollinate with S. bicolor.

8 Field inspection

8.1 The national seed certification authority shall prepare the inspections’ schedule for the inspectors, based on all necessary information on the field, to ensure that the timing of inspections allows the standards in Table 1 or Table 2 to be properly assessed.

8.2 The inspector shall inspect the field in accordance with OECD Seed Schemes: Guidelines for Control Plot Tests and Field Inspection of Seed Crops and shall check for isolation requirements, off-types, the presence of noxious weeds and diseases.

8.3 Inspections shall be done for each seed production field to confirm the field standards specified in Table 1 or Table 2.

8.4 At the time of the first inspection, the inspector shall confirm with the grower, the previous cropping of the field, checking on isolation, and the proof of origin/authenticity of the variety planted by using the labels.

8.5 For open pollinated varieties (OPV), a minimum of two field inspections shall be done shortly before pollen sheds and before harvest.

8.6 In a crop producing hybrid seed, the inspector shall check the identity of the parental lines following the official descriptors. For fields producing certified seed of hybrid varieties, the first inspection shall be conducted before flowering to check for isolation and roguing; at this time the inspector shall also check the identity of the parental materials following the descriptors. The second and third inspections shall be done at the beginning and at the end of the flowering period respectively, to check roguing and for male sterility in the female parent.
8.7 Depending on the degree of contamination, the inspector may give instructions for off-types and diseased plants to be rogued to maintain the genetic purity. In crops producing hybrid seed, roguing is accepted as an option for ensuring varietal purity but plants shall be removed before pollen shedding begins. In the case of hybrids produced by male sterility, the inspector shall confirm that there are no male fertile plants in the female rows.

8.8 The field inspection report shall indicate the field status and comments for any corrective actions required such as re-inspection to confirm the field standards. All field inspection reports shall be provided to the grower and the seed enterprise after each inspection in a timely manner. The field inspection report in Annex B shall be signed by the inspector and may be signed by the grower or the grower’s representative.

9 Seed sampling and laboratory standards

9.1 The harvested seed from the field approved for certification shall be kept as an identified unit until processing. The identification shall include: grower’s number, field crop number, packing unit, variety name and seed class. After processing, a sample shall be submitted to the laboratory for testing where a conformed sample shall be given a certificate with a unique lot number for the purpose of traceability.

9.2 The maximum size of a seed lot for certification purposes is 30 000 kg; lots larger than this shall be divided and given separate lot numbers.

9.3 An official seed sampler shall draw a representative composite sample from each lot as guided by ISTA Rules.

9.4 The composite sample shall be divided into three sub-samples, one for testing in the laboratory, one to be stored for reference purposes in case re-testing is necessary, and one for the post-control test. The samples shall be labelled, securely sealed and shall be stored in cool and dry conditions to prevent contamination and loss of germination.

9.5 Laboratories authorized by the national seed certification authority to conduct seed testing for certification shall follow the methodology established in the ISTA rules.

9.6 The seed lots shall comply with the laboratory standards specified in Table 3 or Table 4.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Variable</th>
<th>Pre-basic seed</th>
<th>Basic seed</th>
<th>Certified seed</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Pure seed, %, min.</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>ii.</td>
<td>Inert matter, %, max.</td>
<td>1.95</td>
<td>1.95</td>
<td>1.95</td>
</tr>
<tr>
<td>iii.</td>
<td>Other crop seeds, %, max.</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
</tr>
<tr>
<td>iv.</td>
<td>Germination, %, min.</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>v.</td>
<td>Moisture content, %, max.</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>vi.</td>
<td>Number of weed seeds, per kg, max.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Table 3 — Laboratory standards for seeds lots of OPV sorghum varieties

<table>
<thead>
<tr>
<th>S. No</th>
<th>Variable</th>
<th>Pre-basic seed</th>
<th>Basic seed</th>
<th>Certified seed</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Pure seed, %, min.</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>ii.</td>
<td>Inert matter, %, max.</td>
<td>1.95</td>
<td>1.95</td>
<td>1.95</td>
</tr>
<tr>
<td>iii.</td>
<td>Other crop seeds, %, max.</td>
<td>0.01</td>
<td>0.01</td>
<td>0.08</td>
</tr>
<tr>
<td>iv.</td>
<td>Germination, %, min.</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
</tbody>
</table>

Table 4 — Laboratory standards for seeds lots of hybrid sorghum
<table>
<thead>
<tr>
<th>S. No</th>
<th>Variable</th>
<th>Pre-basic seed</th>
<th>Basic seed</th>
<th>Certified seed</th>
</tr>
</thead>
<tbody>
<tr>
<td>v.</td>
<td>Moisture content, %, max.</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>vi.</td>
<td>Number of weed seeds, per kg, max.</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

10 Certificates

10.1 The seed test certificate for a seed lot shall be signed and issued by the national seed certification authority and shall include all the information specified in Annex D. This certificate shall be valid for a period not exceeding twelve months.

10.2 Carryover seed shall be re-sampled and retested for germination. If the test result complies with the minimum standards, a new test certificate shall be issued for the seed lot, which cancels the previously issued certificate, and shall include the certificate number of the cancelled certificate.

11 Packaging and labelling

11.1 All classes of seed that have been certified shall be packaged in new containers which shall be marked with the company name and crop species and shall have the official label of the national seed certification authority.

11.2 The labels for each class are identified by the following colours:

   a) pre-basic seed: violet band on white
   b) basic seed: white
   c) certified seed 1st generation (C1): blue
   d) certified seed 2nd generation (C2): red

11.3 If seeds are treated with any chemical or product harmful for human or animal consumption, the container shall carry a label stating the chemical or product used and warning of the health risks.

11.4 The labels shall be prominent, indelible, legible and fixed to the containers by an authorized person in such a way that they cannot be destroyed or easily removed. The language on the label shall be English and any other official language of the member state may be used. The following information shall be included on the official labels provided by national seed certification authority:

   a) name of the crop, as, “Sorghum seed”;
   b) species (Latin name);
   c) variety denomination;
   d) seed lot number;
   e) seed test certificate number;
   f) date of test;
   g) net weight;
   h) seed treatment declaration (if applicable);
   i) logo of the national seed certification authority;
j) name and address of national seed certification authority;

k) seed class; and

l) germination rate and purity level.

11.5 The following information shall be given in the container in addition to the official labels provided by national seed certification authority:

a) net weight;

b) country of production;

c) year of production;

d) seed treatment declaration;

e) name and address of the grower;

f) seed class; and

g) lot number.

11.6 All containers shall be closed either by hand or machine stitching and shall be sealed in such a way that if they are opened illegally, that violation can be detected.

11.7 Repackaging and relabelling are authorized in the following cases:

a) the national seed certification authority may authorize the re-packaging and re-labelling of a particular seed lot that is produced in another country, but shall retain the original label information of the producing country; and

b) blending of a seed lot with other lots of the same variety and class (generation) is allowable if all seed lots of the blend have met the field and laboratory requirements for certification prior to blending. A new lot number shall be issued. Details of the blended lots and their proportions shall be kept by the certifying authority for traceability.

12 Post-control tests

The post-control tests shall be carried out in accordance with OECD Schemes for Varietal Certification or the Control of Seed Moving in International Trade.
Annex A  
(normative)

Application for field inspection of a seed crop

FORM No....................................................... Grower No.....................................................

APPLICATION FOR FIELD INSPECTION OF A SEED CROP

1. Full name of grower __________ Postal Address ___________ Tel. No. ______________

2. Farm on which the seed crop is being grown ______________ L/R. No. ______________

3. Physical location ________________________________ GPS coordinates ____________

4. Details of crop (Every crop regardless of size must be mentioned separately. A crop is field planted within 5 days).

<table>
<thead>
<tr>
<th>Field crop No.</th>
<th>Species</th>
<th>Variety</th>
<th>Lot No. of seeds used</th>
<th>Class of seed used</th>
<th>Ha</th>
<th>Date planted</th>
<th>Approximate date of harvest</th>
<th>Previous cropping history (Last 3 seasons)</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

4. Seed rate per hectare _____________________________ kg

5. Registered seed merchant to whom the entire seed stock will be sold ____________________

6. I have enclosed __________________________ number of labels from packets/containers of the seed for this crop(s); as proof of origin.

7. The person who will daily be in charge of his seed crop is (Name/Telephone number) ____________________________

8. Declaration:
I hereby declare that all information provided here is true to the best of my knowledge and belief and I shall always observe all conditions governing seeds production as provided in the Seeds Act and Regulations

Date..............................................Signature of Applicant ...........................................

Stamp of seed Merchant/Grower.................................................................
Annex B  
(normative)

Field inspection report

FORM ………… Date……………
G/No…………

FIELD INSPECTION REPORT

Growers Name ___________________________________ Species ________________________

Variety _____________________ Field No. (s) Name __________________________________

Crop No.(s) _____________________________ Hectares__________________ Class ____________

1st 2nd 3rd………………………………………….. Inspection (tick)

ITEMS:

- is the crop true to type? ☐ Yes ☐ No ☐ Doubtful
  Remarks………………………………………………………………

- Isolation in distance/time ☐ satisfactory ☐ Not Satisfactory
  Remarks………………………………………………………………

- Off-type(s) (describe)……………………………………………………………………………………
  Remarks………………………………………………………………

- Noxious Weeds (Specify) …………………………………………………………………………….
  Total found………………………………………………………………………………………….

- Other Crop Species (specify)……………………………………………………………………….

- Health (Diseases)…………………………………………………………………………………….

- Crop Stand ☐ Good ☐ Satisfactory ☐ Not satisfactory
  Remarks………………………………………………………………

- Estimated yield at final inspection…………………………………………………………………….

No of counts made……………………………… Average count……………………………………

No of plants counted…………………………………… tassels/selfing plant found……………….%

CROP RESULT ☐ Pending ☐ Approved ☐ rejected because of …………………

If to be re-inspected within __________________________________________ Days

Further remarks …………………………………………………………………………………

Copy to:_________________________________________________

Seed Inspector(s) Name…………………………Signature ………………..

Official stamp………………………………….
Annex C  
(normative)  
Seed testing certificate

Form SR………………

OFFICIAL SEED TESTING CERTIFICATE

<table>
<thead>
<tr>
<th>Date of Sampling</th>
<th>Date received</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Lot Number  
Ref  
Weight of lot:

Crop species, Variety  
As stated by inspector:

Country of Origin

RESULTS OF ANALYSIS

<table>
<thead>
<tr>
<th>Purity</th>
<th>Germination</th>
<th>Moisture</th>
<th>Test No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inert matter</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Crop seed</td>
<td>%</td>
<td>Other Crop seed</td>
<td>%</td>
</tr>
<tr>
<td>First count</td>
<td>%</td>
<td>First count</td>
<td>Day s</td>
</tr>
<tr>
<td>Ger m (G)</td>
<td>(Fina l count)</td>
<td>Ger m (G)</td>
<td>Days</td>
</tr>
<tr>
<td>Har d</td>
<td>%</td>
<td>Har d</td>
<td>%</td>
</tr>
<tr>
<td>Fresh Unger m</td>
<td>%</td>
<td>Fresh Unger m</td>
<td>%</td>
</tr>
<tr>
<td>Dead</td>
<td>%</td>
<td>Dead</td>
<td>%</td>
</tr>
<tr>
<td>Pure germinating seed</td>
<td>PxG (%)</td>
<td>Pure germinating seed</td>
<td>(%)</td>
</tr>
<tr>
<td>Moisture %</td>
<td>Test No.</td>
<td>Moisture %</td>
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</tr>
<tr>
<td>Any inquiries concerning this test MUST quote this number</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Abnormal %  
Broken Germs %  
(1)  
(2)  
(3)  
Special Tests  
Seed dressing:

Official seed Tester  
Date:

Copies To  
Seed Testing Laboratory

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