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EQUIPMENT CATALOG
Aspergillus flavus Mold
(A. flavus)

1. Kernel slightly magnified to show fuzzy or beady appearance of A. flavus.

2. Kernel magnified to show conidial heads indicating A. flavus.

3. Kernel under higher magnification to show pronounced characteristics of A. flavus.

4. Kernel magnified to show characteristic of A. Nigre (black conidial heads).

5. Kernel magnified to show other types of mold.
Top photo shows comparison of “mini-mold” (left) and A-flavus (right) under 4X magnification.

The small stems and cone shaped heads of “mini-mold” compared to the large stems and round conidial heads of A-flavus are more apparent in the enlargement below.

“Mini-Mold” /A-Flavus
Comparison

Identification
PEN-CP-3-A-6/89
Top photo shows comparison of “mini-mold” (left) and A-flavus (right) under 4X magnification.

The small stems and cone shaped heads of “mini-mold” compared to the large stems and round condial heads of A-Flavus are more apparent in the enlargement below.
ILLUSTRATING DISCOLORED SHELLS OF MILLED PEANUTS (Virginia Type)
Top Four Shells--------Not damaged by discoloration
Bottom Four Shells------Damaged by discoloration

Discoloration of Peanuts
PEN-CP-4
March 1990
(previously 12/73)
PEANUT KERNELS SHOWING CHARACTERISTICS OF FREEZE DAMAGE

Freeze damaged peanuts have a slightly dull and faded skin color with the veins often becoming dark and conspicuous. The flesh has a glassy or an abnormal dull appearance and may also show a noticeable yellow, brown or gray discoloration on the oval side of the kernel.

The kernels must be split, the skins removed, and both the flat and round sides examined when determining freeze damage. The flesh of the half kernel must have an indication of freeze damage to be scored. Do not confuse surface discoloration not penetrating the flesh with freeze damage. Any peanut with a definitely rancid flavor is damaged, regardless of skin or flesh color.

PEANUT KERNELS – FREEZE DAMAGE
Pen-CP-6
(Revised 9/89)

X Indicates kernels not having definite characteristics of freeze damage and are not scorable.

Remaining kernels show one or more of the following definite characteristics of freeze damage and are scorable.

A Vein discoloration with glassy appearance.
B Yellow to mustard discoloration accompanied by glassy appearance.
C Yellow to brown discoloration accompanied by glassy appearance.
D & Unmarked kernels – Kernels which have a glassy appearance but do not have the discoloration as described in A. B & C shall be scored as damage only if hard, brittle and/or have a distinctly objectionable taste.
FARMERS' STOCK PEANUTS

"Not Raisins"

"Raisins" ("Twister")

USDA

PEN-CP-8
"Raisins"
June 1996
PEANUT
SKIN DISCOLORATION
COLOR COMPARATOR PN-1

PEANUTS
USDA
SKIN DISCOLORATION
Revised 2010

BROWN
GRAY
BLUE-GRAY
PURPLE
SHELL DISCOLORATION ON VALENCE TYPE PEANUTS

NATURAL SHELL COLOR

25% OF SURFACE SHOWING DISCOLORATION

PN-2, 7/86
Peanuts
Minimum light yellow color for scoring flesh discoloration

USDA PN-CC-1 APRIL 2014
ADHERING MATERIAL ON PEANUT KERNELS

Minor Defects

Whole or half kernels with adhering material in equal or greater amounts than shown are scored as minor defects.

USDA

PN - CP - 5
Adhering Material on Peanut Kernels
November 1995
High Moisture Foreign Material For Peanuts

Citron

Horse Nettle (Briarball or Treadsatter Ball)

Pieces of Citron

Gherkins

Small Citrons

Maypops

PNT-CP-7

Foreign Material

September 1992
Peanut Kernels: Identification Only - Concealed Rancid, Mold, & Decay