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Lebanese Republic
Ministry of Agriculture
The Minister

Decision No. 165/1
Subjecting imported wheat intended for human consumption to laboratory tests

The Minister of Agriculture,
Pursuant to decree number 8376 dated 10/09/2021 (government formation),
Pursuant to law number 31 dated 18/01/1995 (identifying the missions of the Ministry of Agriculture),
Pursuant to law number 778 dated 28/11/2006 (law of agricultural quarantine and plant health measures)
Pursuant to legislative number 97/83 dated 16/09/1983 and its amendments (merging public institutions with the Ministry of Agriculture),
Pursuant to decree number 5246 dated 20/06/1994 (organizing the Ministry of Agriculture),
Pursuant to the suggestion of the Director General of Agriculture,
And after consulting the Shura Council of the State (number 213/2021-2022 dated 07/07/2022),

Decides the following:

Article 1: Each consignment related to imported wheat intended for human consumption shall be subject to laboratory tests in accredited official laboratories.

Article 2: The agricultural quarantine centers withdraw samples in accordance with the decision regulating the method of taking and transferring the sample to imports and send it to accredited laboratories to conduct the tests specified in Article 3 of this decision. A sufficient portion of the sample is kept for analysis in accordance with international standards according to the decision regulating the method of taking and transferring the sample to imports in the laboratory for reference in case of necessity, and in a manner that does not conflict with the decision regulating the mechanism for verifying the conformity of imported agricultural and food products with the required specifications and requirements.

Article 3: Accredited laboratories carry out laboratory tests for imported wheat intended for human consumption in accordance with international standards for health, safety and quality of grains as follows:

a- **Direct and indirect tests for the health and safety of wheat grains**:
1. Wheat grains should have a natural smell and be completely free from:

- Clumping and rotting
- Tilletia controversa
- Tilletia indica
- Tilletia laevis
- Claviceps purpurea, Ergot
- Anguina tritici
- Living or dead Trogoderma granarium

2. The number of live storehouse insects in their various types mentioned in Table 1 attached to this decision and other warehouse pests, including mites, should not exceed (2 kg live pests).

3. The percentage of Egot (Claviceps purpurea) should not exceed 0.05%.
4- The consignment must be free of coal lumps such as those caused by common smut on wheat (Tilletia laevis).

b. Quality tests:
1- The protein content should be 11% as a minimum.
2- The moisture content should be 14% as a maximum.
3- The danger rate should not exceed 3%, and the danger means the following:

- All foreign materials coming down from a slit sieve (1 mm x 20 mm) (such as pebbles, dust, straw and seeds of various herbs, doe herb and bitter herb.
- Other crops such as (lentils, chickpeas, corn, etc.) except for all kinds of barley.
- Unhealthy wheat grains affected by frost or immature grains.

4. The total impurities are 8% maximum and include the following:

- Wheat grains, broken and atrophied, and their parts descending from a slit sieve, 1,7 mm x 20 mm, at a rate of thirty shakes (within 30 seconds)
- Barley of all kinds and varieties and wild barley
- Triticale spp.

5. The combined danger and impurity rates should not exceed 10%.

6. The rate of infestation with sunn pest should not exceed 2%.

c. Tests of toxic and harmful herb seeds:

1- Wheat must be completely free of toxic and harmful herb seeds listed in Table No. 2 attached to this decision.
2- List 82 attached to this decision is adopted to determine the weed seeds allowed to be present in wheat.

d. Mycotoxin tests:
The percentage of toxins should not exceed the following:
1- Aflatoxin (AFB1): 2 µg/kg maximum
2- Total aflatoxin (AFT) less than 4 µg/kg maximum
3- Ochratoxin A (OTA): 3 µg/kg maximum
4- Deoxynivalenol: 1750 µg/kg maximum
5- Zearalenone: 100 µg/kg maximum

e- Heavy metal tests:
The percentage of heavy metals should not exceed the following:
1- Lead: 0.20 mg/kg wet weight
2- Cadmium: 0.20 mg/kg wet weight

f- Germ tests:
The following microorganisms must be considered:
1- Yeasts and molds / g maximum M=10°
2- Salmonella should be free

g- Tests for pesticide deposits:
The percentage of pesticide deposits should not exceed the following:
1- Glyphosate 20 mg/kg

h- e. Radiological tests:
The atomic radiation ratio should not exceed 150 Bq/kg maximum



Article 4: Laboratory analysis methods for heavy metals, pesticide deposits, microorganisms and mycotoxins are determined as follows:

Heavy metal analysis

Item	Sample type	Analysis type	Analysis method
1001	Wheat (wheat) and a mixture of rye wheat	Lead	Atomic Emission Spectrometer
1001010	Hard wheat (wheat).	Lead	Atomic Emission Spectrometer
10011090	Other	Lead	Atomic Emission Spectrometer
1001	Wheat (wheat) and a mixture of wheat and rye	Cadmium	Atomic Emission Spectrometer
1001010	Hard wheat (wheat).	Cadmium	Atomic Emission Spectrometer
1001090	Other	Cadmium	Atomic Emission Spectrometer

Pesticide deposits analysis

Item	Sample type	Analysis type	Analysis method
1001	Wheat (wheat) and a mixture of rye wheat	Glyphosate	Eliza/confirmed by UHPLC
1001010	Hard wheat (wheat).	Glyphosate	Eliza/confirmed by UHPLC
1001090	Other	Glyphosate	Eliza/confirmed by UHPLC

Microbiological analyzes

Item	Sample type	Analysis type	Analysis method
1001	Wheat (wheat) and a mixture of rye wheat	Yeasts and molds	21527-2008 ISO
		Salmonella	2002:6579 ISO Cor1:2004
1001010	Hard wheat (wheat).	Yeasts and molds	21527-2008 ISO
		Salmonella	2002:6579 ISO Cor1: 2004
1001090	Other	Yeasts and molds	21527-2008 ISO
		Salmonella	2002:6579 ISO Cor1: 2004

Mycotoxin analyzes

Item	Sample type	Analysis type	Analysis method
1001	Wheat (wheat) and a mixture of rye wheat	Aflatoxin B1	HPLC
		Aflatoxin AFT	HPLC
		Ochratoxin A	HPLC
		Don	ELIZA

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		Zon	ELIZA
1001010	Hard wheat (wheat).	Aflatoxin B1	HPLC
		Aflatoxin AFT	HPLC
		Ochratoxin A	HPLC
		Don	ELIZA
		Zon	ELIZA
1001090	Other	Aflatoxin B1	HPLC
		Aflatoxin AFT	HPLC
		Ochratoxin A	HPLC
		Don	ELIZA
		Zon	ELIZA

Article 5: When the consignments arrive at the Lebanese border posts, and after taking samples according to the approved rules, they are allowed to enter silos or warehouses, provided that a pledge is submitted not to use the goods, pending the issuance of the results of the tests that allow the release of the consignment.

Article 6: Decision 502/1 dated 09/21/2010 and its amendments shall be repealed. This decision shall be published in the Official Gazette and it shall come into force with the entry into force upon its issuance.

Article 7: To be notified where necessary.

Beirut, 02/05/2023
Minister of Agriculture
Dr. Hussein Al Haj Hassan
(Signature and seal)

Send a copy to:

- Presidency of the Cabinet
- Civil Service Council
- Central Inspection - Agricultural Inspection
- Ministry of Economy and Trade
- Ministry of information
- Supreme Council of Customs
- General Directorate of Customs
- Agricultural Research Department
- Official Gazette (to be published)
- Agricultural Wealth Directorate
- Agricultural Health Quarantine Centers
- Federation of Chambers of Commerce, Industry and Agriculture
- Diwan
- Archives



Table 1

Insect scientific name
Cryptolestes Ferrugineus
Cryptolestes pusillus
Ephestia keuhniella
Pyralis farinalis
Rhizopertha dominica
Sitophilus granaries
Sitotroga cerealella

Table 2

Scientific name
Bellardia spp.
Coronopus didymus
Cuscuta spp.
Orobanche spp.
Solanum carolinse
Solanum heterodoxum
Solanum rostratum
Striga spp.

List A2: Regulated non quarantine weed seeds

Scientific Name	Seeds number/kg
Abutilon spp.	20
Acanthus spp.	15
Adonis spp.	20
Aegilops spp.	30
Agrosthima githago	10
Amaranthus spp.	75
Anthoxanthum spp.	15
Arundo donax	15
Avena fatua	20
Avena ludoviciana	20
Avena strilis	20
Bifora spp.	5
Boerhavia erecta	5
Brassica nigra	25
Bromus spp.	15
Calendula spp.	10
Capsella bursa- pastoris	50
Cardaria spp.	25
Cantaurea spp.	20

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Cephalaria spp.	20
Chenopodium spp.	50
Cirsium spp.	10
Convolvulus althaeoides	20
Convolvulus arvensis	20
Convolvulus spp.	20
Corchorus olitorius	10
Cyperus spp.	30
Datura spp.	10
Diplotaxis spp.	50
Echinochloa colomum	35
Echinochloa crus- galli	35
Erigeron spp.	30
Euphorbia spp.	30
Fumaria officinalis	25
Gallium spp.	25
Glaucium corniculatum	10
Heliotropium spp.	25
Hibiscus spp.	15
Hordeum spontaneous	15
Hordem stristum	15
Hyptis suaveolens	5
Imperata cylindrica	15
Ipomoea spp.	5
Lappula echinata	5
Lethospermum arvense	10
Linum usitatissimum	10
Lolium multiflorum	15
Lolium temulentum	15
Malva spp.	15
Medicago spp. Except M.sativa (crop)	30
Melandrium album	15
Melilotus spp.	35
Myagrum spp.	20
Onobrychis viciifolia	5
Ononis spp.	10
Onopordum acanthium	5
Papaver spp.	40
Pennisetum americanm	5
Phalaris spp.	20
Picris spp.	5
Plantago spp.	10
Polygonium aviculare	20
Polygonium convovulus	20
Polygonium persicaria	20
Polygonium lapathifolium	20
Ranunculus arvensis	10
Raphanus raphanistrum	30
Rorippa spp.	10
Rottboellia exalata	5

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Rumex spp.	35
Schismus spp.	10
Scolymus spp.	10
Setaria spp.	40
Silene spp.	40
Silybum spp.	15
Sinapis spp.	35
Solanum elaeagnifolium	10
Solanum nigrum	10
Sorghum spp.	10
Stellaria spp.	50
Thlaspi spp.	30
Trianthema portulacastrum	5
Vaccaria spp.	20
Veronica spp.	40
Xanthium spinosum	10
Xanthium strumarum	10

True translation of the Arabic adjoined document.

