	QUALITY SPECIFICATION		IKD: II.– ŠpK – 01e
	CORN Qualitative parameters of the raw material for the production of bioethanol and DDGS		Issue: 5.
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Corn seed must meet provisions of the Regulation (EC) of the European Parliament and of the Council No 183/2005 as amended by regulations on feed materials and these quality parameters:

Moisture	max. 14.0% of weight
Total defined impurities:	max. 1.0% of weight
of which: mouldy seeds	max. 0.2% of weight
Grain starch content	min. 62.0% of weight
Specific weight	min. 710 g/l
Broken seeds	max. 8.0% of weight

The “defined” impurities are as follows:

1. complete drop through a sieve with circular openings 2 mm in diameter;
2. as a proportion left above a sieve with circular openings 2 mm in diameter:
 - inorganic impurities (earth, sand, stones etc.);
 - organic impurities (chaffs, cobs, leaves, etc.);
 - seeds of all cultivated and wild plants with the exception of cereals (wheat, barley, rye, triticale)
 - mouldy seeds

Health safety

1. Corn seed must be healthy, ripened, free from living pests and foreign smells. It must not contain mouldy or mildewed grains (more than 0,2%), nor unripe grains in milk ripening stage.
2. The amount of foreign contaminants in corn grain must meet effective legal regulations (heavy metals, residues of plant protection products and other undesirable substances).
3. The required permissible amounts of individual mycotoxins in corn grain are:

MYCOTOXINS	Required values in µg/kg*
Deoxynivalenol (DON)	3,200
Zearalenone (ZEA)	700
Fumonisin (B1, B2, B3)	16,000
Aflatoxins (B1, B2, G1, G2)	5


* calculated for 12% moisture

Transport requirements

1. Only hygienically clean vehicles with a Certificate of vehicle hygienic fitness for the transport of food can be used for the transport of grains.

To be completed only if there is a change

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2. All transport vehicles, whether directly owned or hired, transporting materials in bulk (grains) must be regularly cleaned and disinfected, and no residues from a previous load may remain in the transport containers or tank trailers.
3. The transported raw material must be protected against adverse weather conditions.

Required documentation

1. GMO declaration – written declaration or protocol that the delivered corn does not contain genetically modified organisms.
2. Test report – document containing information about the content of undesirable substances in a sample of corn pursuant to Government Regulation of the Slovak Republic No 438/2006 Coll. on undesirable substances in feed materials and other indicators of feed materials safety and usability as amended (mycotoxins, heavy metals, pesticide residues etc.) issued by an accredited laboratory. A copy of the test report will be provided for every batch of stored corn.
3. Record of treatment of stored corn – document containing data about each and every treatment that was carried out during the period of corn storage as well as the description of substances and products used for this treatment.
4. Certificate of vehicle hygienic fitness – document attesting to the fitness of a specific vehicle for the transport of grains, it is sufficient to produce it on the first delivery of corn.
5. Record of cleaning, disinfection and maintenance of a particular vehicle – to be produced by the driver on request.
6. Record of transport of the last three consignments transported in bulk – to be produced by the driver on request.

Other

The grower complies with the requirements of proper agricultural practices (in accordance with Government Regulation No 389/2005 Coll. on proper agricultural practices) and can provide documents tracking the origin of the corn.

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