

 <b>ENVIRAL</b>  <b>POLNOSERVIS</b>  <b>ENAGRO</b>		
<b>QUALITY SPECIFICATION</b>		<b>IKD: II.- ŠpK – 06</b>
<b>RAPESEED</b> <b>Qualitative parameters of the raw material for the production of raw oil and groats for use as feed</b>		<b>Issue: 4.</b>
<b>Prepared by:</b> Ing. Ľubica Svetlíková, referee for feed material	<b>Reviewed by:</b> Ing. Peter Šrojta, manager for biodiesel and oil production	<b>Approved by:</b> Ing. Ján Moncol' manager of quality control department
<b>Document administrator:</b> Ing. Ľubica Svetlíková, referee for feed material		<b>Page: 1/2</b> <b>Valid from: 29<sup>th</sup> January 2020</b>

This quality specification defines technical and qualitative requirements for the purchase of raw material for the production of raw oil and groats for use as feed.

Rapeseed seed (*Brasica napus* L. var. *Napus*) must meet provisions of the Food Code of the Slovak Republic, Regulation (EC) of the European Parliament and of the Council No 1831/2003 Coll. as amended and these quality parameters:

Moisture and volatile substances	max. 8.0% of weight
Fat content at 8% seed moisture	min. 40.0% of weight
Sprouted seeds, damaged	max. 2.0% of weight
Total defined impurities:	max. 2.0% of weight
of which: a) inorganic: earth, sand, glass, metal, stones etc.	max. 0.2% of weight
b) mouldy and mildewed seeds	max. 0.2% of weight
c) harmful impurities: seeds of weeds	max. 0.5% of weight
of which: Cleavers	max. 0.1% of weight
Glucosinolate content in fat-free dry matter	max. 25 µmol/g
Erucic acid content (of the total content of fatty acids)	max. 2.0% of weight
Oil acid value	max. 1.80 mg KOH/g of oil

### Organoleptic properties and health safety

1. Rapeseed seed must be healthy, ripened, with typical seed colour, free from living pests and foreign smells. It must not contain seeds that are mouldy or mildewed, mechanically damaged or unripened.

2. The amount of foreign contaminants must meet effective legal regulations (heavy metals, mycotoxins, dioxins, polyaromatic carbohydrates, PCBs, residues of plant protection products and other undesirable substances) – Decree of the Ministry of Agriculture No 608/3/2004-100 issuing Chapter of the Food Code of the Slovak Republic as amended and Government Regulation of the Slovak Republic No 438/2006 Coll. on undesirable substances as amended.

### Storage


1. Oily seeds must be stored in suitable storage space at a temperature not exceeding 30 °C and maximum relative moisture 70%.

2. The space must be clean, dry, ventilable, free from mould, pests and foreign smells.

3. Oily seeds must immediately undergo treatment after being affected by pests.

To be completed only if there is a change

<b>Change no.:</b>	<b>Change effective date:</b>	<b>Verified by:</b>
--------------------	-------------------------------	---------------------

	<b>QUALITY SPECIFICATION</b>	<b>IKD: II.- ŠpK – 06</b>
	<b>RAPESEED</b> <b>Qualitative parameters of the raw material for the production of raw oil and groats for use as feed</b>	<b>Issue: 4.</b>

### Transport requirements

1. The transported raw material must be transported in covered and sealed vehicles to ensure quality and health safety are not compromised and to prevent any accidental loss of weight.
2. Only hygienically clean, dry vehicles with undamaged floor, roof and walls and with a Certificate of vehicle hygienic fitness for the transport of food can be used for transport.
3. All transport vehicles, whether directly owned or hired, transporting materials in bulk must be regularly cleaned and disinfected, and no residues or smells from a previous load may remain in the transport containers or tank trailers. Records on cleaning and disinfection of the vehicle form a part of the vehicle's log.

### Taking of samples and testing methods

Taking of samples is done according to STN EN ISO 542 or STN ISO 13690.  
Testing methods stated in STN 462300-2 are used for individual analyses.


### Required documentation

1. Accompanying letter in accordance with STN46 2300-1, point 5, section 2.
2. Quality certificate stating the following parameters: moisture and volatile substances, fat content at 8% seed moisture, sprouted, damaged and unripe seeds, content of impurities, cleavers content.
3. Test report/statutory declaration on complying with the limits for the content of undesirable substances in a sample of rapeseed seeds (heavy metals, mycotoxins, dioxins, polyaromatic carbohydrates, PCBs, residues of pesticides etc.) in accordance with Decree of the Ministry of Agriculture No 608/3/2004-100 issuing Chapter of the Food Code of the Slovak Republic as amended and Government Regulation of the Slovak Republic No 438/2006 Coll. on undesirable substances as amended.
4. GMO declaration – written declaration or test report that the supplied raw material, rapeseed, does not contain genetically modified organisms.
5. Record of treatment of stored rapeseed seed – document containing data about each and every treatment that was carried out during the period of rapeseed storage as well as the description of substances and products used for this treatment (to be produced when concluding a contract).
6. Certificate of vehicle hygienic fitness – document attesting to the fitness of a specific vehicle for the transport of food, which has to be produced when concluding a contract or on the first delivery.
7. Record of cleaning, disinfection and maintenance of a particular vehicle – to be produced by the carrier on request.
8. Record of transport of the last three consignments transported in bulk – to be produced by the driver/carrier on request.

### Other

To be completed only if there is a change

<b>Change no.:</b>	<b>Change effective date:</b>	<b>Verified by:</b>
--------------------	-------------------------------	---------------------

	<b>QUALITY SPECIFICATION</b>	<b>IKD: II.- ŠpK – 06</b>
	<b>RAPESEED</b> <b>Qualitative parameters of the raw material for the production of raw oil and groats for use as feed</b>	<b>Issue: 4.</b>

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 rapeseed seed.

To be completed only if there is a change

<b>Change no.:</b>	<b>Change effective date:</b>	<b>Verified by:</b>
--------------------	-------------------------------	---------------------