

Products :	Food, Pharma and Industry
Manufacturing locations :	ROQUETTE European production plants

MYCOTOXINES

The European regulations 1881/2006 and its modifications¹ are set as a function of:

- Base products (kernels of wheat, maize, barley, etc.)
- Transformed products
- Food destinations
- Type of mycotoxin.

The Regulation sets the following thresholds for:

- **Storage toxins** for wheat and maize starch industry derived products:
 - Ochratoxin A: 3 ppb, except for Wheat gluten : 8 ppb
(According to Regulation (EU) nr. 594/2012 dated 5 July 2012)
 - Aflatoxin B1: 2ppb
 - and Aflatoxins B1+B2+G1+G2: 4 ppb
- **Wheat field toxins:**
 - Deoxynivalenol: 1250 ppb
 - Zearalenone: 100 ppb
- **Maize field toxins:**

The starch industry obtained an exemption concerning the setting of *Fusarium* toxin levels in maize. This is taken up in the Regulation 1126/2007, which recognizes that “*Fusarium* toxins are not detected or detected only in very small amounts in maize starch, irrespective of the *Fusarium* toxin contents of raw maize”.

This exemption does not threaten the level of consumer health protection to *Fusarium* toxin exposure.

To guarantee compliance with Regulation 1881/2006 and its amendments, our supplies are tested: analyses of Deoxynivalenol and Zearalenone are performed on raw material pre-samples and samples over the July to September period for wheat and October to December for maize.

An evaluation of the results obtained is performed to establish the control plan for the rest of the harvest depending on the sanitary risk. The monitoring is thus defined on the raw materials and/or finished products according to the *Fusarium* pressure observed.

This organization allows us to comply with current European regulatory requirements on our raw materials and finished products.

¹ Roquette commits itself to follow the evolution of the Regulation to apply in this note and to inform customers if necessary.

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HEAVY METALS

Maximum levels of heavy metals are defined in regulation 1881/2006/EC and 396/2005 and their modifications¹ which set maximum levels heavy metals in cereals, vegetables and pulses.

Since raw materials purchased by ROQUETTE show very low heavy metals contents (which is corroborated by our monitoring plans implemented for years), we follow an annual analytical program on our raw materials (i.e. maize, wheat and peas) complying with the maximum limits fixed by the regulation.

On finished products such as starches, proteins and co-products obtained from maize, wheat, potato, pea as well as tapioca starch, analysis are performed to measure lead, cadmium, mercury, arsenic and nickel for each family of products.

The results comply with the limits laid down in current European regulations.

PESTICIDES

To ensure compliance with the requirements of European Regulation (EC) No. 396/2005/EC with modifications¹ concerning «maximum residue levels of pesticides in or on food and feed of plant and animal origin», ROQUETTE has implemented a control plan on the raw materials used and the finished products as described below:

On the raw materials, ROQUETTE monitors the insecticides used during storage (organophosphate and organochloride). During each campaign, the residues of Pesticides used in the fields are also checked on the deliveries of all our raw materials (Maize, Wheat, Potato and Pea). The analysis are performed on a representative sample of raw material from each supplier as described in ROQUETTE internal control plan.

On the finished products issued from maize, wheat, potato, pea and tapioca starch, the residues of insecticides used during the storage and/or in the fields are analysed according to an internal control plan.

The results obtained comply with the limits laid down in current European regulations.

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Global Customer QA Department

FOOD/PHARMA/INDUS-Contaminants/Pesticides-3591-V13I91

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