

# Environmental monitoring plan for GHB614 cotton

## 1. Introduction

As required by Article 5(5)(b) and Article 17(5)(b) of Regulation (EC) No 1829/2003 the proposed Post-Market Environmental Monitoring (PMEM) plan for GHB614 cotton has been developed according to the principles and objectives outlined in Annex VII of Directive 2001/18/EC and Decision 2002/811/EC establishing guidance notes supplementing Annex VII to Directive 2001/18/EC. The PMEM also takes into account the Scientific Opinion on guidance on the Post-Market Environmental Monitoring of genetically modified plants<sup>1</sup>.

The European Food Safety Authority (EFSA) has carried out the scientific assessment of GHB614 cotton and considered that GHB614 cotton is unlikely to have any adverse effect on human and animal health or on the environment in the context of its intended uses.

EFSA evaluated the environmental monitoring plan proposed by the authorisation holder and considered that there is no need for a case-specific monitoring since no adverse effects were identified<sup>2</sup>. The monitoring consisting in a general surveillance plan is in line with the intended uses for the GMO.<sup>3</sup>

## 2. General surveillance plan for unanticipated adverse effects

### 2.1. Approach

General surveillance is not based on a particular hypothesis and it should be used to identify the occurrence of unanticipated adverse effects of the viable GMO or its use for human and animal health or the environment that were not predicted in the environmental risk assessment (e.r.a.).

Genetically modified GHB614 cotton is authorised for import, processing and food and feed uses, but not for cultivation.

Therefore, exposure to the environment shall be limited to the unintended release of GHB614 cotton, which would occur for example via substantial losses during

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<sup>1</sup> EFSA Panel on GMO, Scientific Opinion on guidance on the Post-Market Environmental Monitoring (PMEM) of genetically modified plants. EFSA Journal 2011;9(8):2316. [40 pp.] doi:10.2903/j.efsa.2011.2316

<sup>2</sup> EFSA GMO Panel (EFSA Panel on Genetically Modified Organisms), 2009. Scientific Opinion of the Panel on Genetically Modified Organisms on an application (Reference EFSA-GMO-NL-2008-51) for the placing on the market of glyphosate tolerant genetically modified cotton GHB614, for food and feed uses, import and processing under Regulation (EC) No 1829/2003 from Bayer CropScience. EFSA Journal 2009;7(3):985, 24pp. <https://doi.org/10.2903/j.efsa.2009.985>.

<sup>3</sup> EFSA GMO Panel, 2021. Scientific Opinion on the assessment of genetically modified cotton GHB614 for renewal authorisation under Regulation (EC) No 1829/2003 (application EFSA-GMO-RX-018). EFSA Journal 2021;19(7):6671, 12 pp. <https://doi.org/10.2903/j.efsa.2021.6671>.

loading/unloading of the viable commodity including GHB614 cotton destined for processing into animal feed or human food products. Such exposure can be controlled by clean up measures and the application of current practices used for the control of any adventitious cotton plants, such as manual or mechanical removal and the application of herbicides, with the exception of glyphosate-based herbicides.

However and in order to safeguard against any adverse effects on human and animal health or the environment that were not anticipated in the e.r.a., general surveillance on GHB614 cotton shall be undertaken for the duration of the authorisation. The general surveillance shall take into consideration, and be proportionate to, the extent of imports of GHB614 cotton and use thereof in the Member States.

In order to increase the possibility of detecting any unanticipated adverse effects, a monitoring system shall be used, which involves the authorisation holder and operators handling and using viable GHB614 cotton. The operators shall be provided with guidance to facilitate reporting of any unanticipated adverse effect from handling and use of viable GHB614 cotton.

A detail description of the methodology proposed for general surveillance of GHB614 cotton is provided in Section 2.6.

## 2.2. Baselines

Since the intended use of GHB614 cotton is the same as that of any other commercial cotton, the procedures for the import, handling and processing of GHB614 cotton shall be the same and have been considered in the development of the monitoring plan. The baseline and controls for general surveillance shall rely on the historical knowledge and experience with non-GM cotton as comparable reference where necessary.

## 2.3. Time-period

General surveillance of GHB614 cotton shall be undertaken for the duration of the authorisation period for GHB614 cotton for import and processing.

## 2.4. Assigning responsibilities

The authorisation holder is responsible for ensuring that the monitoring plan is put in place and properly implemented in accordance with the conditions of the authorisation.

The authorisation holder shall be in the position to give evidence to the Commission and the competent authorities of the Member States:

- That the monitoring networks as specified in the monitoring plan collect the information relevant for the monitoring of GHB614 cotton;

- That the members of these networks have agreed to make available that information to the authorisation holder before the date of the submission of the monitoring report.

The third parties involved in the general surveillance shall report any potential unanticipated adverse effects to the authorisation holder, who shall immediately investigate and inform the European Commission in accordance with Regulation (EC) No 1829/2003<sup>4</sup>, as described in Section 3.

## 2.5. Existing systems

### *Primary sources of information*

The authorisation holder is not involved in commodity trade with GHB614 cotton. The monitoring methodology hence needs to be predominantly based on collaboration with third parties, such as operators involved in the import, handling and processing of viable GHB614 cotton. They are exposed to imported viable GHB614 cotton and therefore are the best placed to observe and report any unanticipated adverse effects in the framework of their routine surveillance of the commodities they handle and use. The routine surveillance is based on the HACCP principles as reflected on the website of the trade associations representing the operators involved in the PMEM (see below).

Since traders may commingle GHB614 cotton with other commercial cotton, including authorised GM cotton, the authorisation holder is working together with other members of the plant biotechnology industry within CropLife Europe and trade associations representing the relevant operators in order to implement a harmonised monitoring methodology.

The following networks are currently involved:

- Importers/Traders

COCERAL is the European association of trade in cereals, rice, feedstuffs, oilseeds, olive oil, oils and fats and agro-supply. It represents the interests of the European collectors, traders, importers, exporters and port silo storekeepers of the above-mentioned agricultural products. The main importers of cereals and feedstuffs into the EU are members of COCERAL.

Also see: <http://www.coceral.com/>

- Silo Operators

UNISTOCK is the European association representing professional storekeepers for agribulk commodities in the EU. UNISTOCK full and extraordinary members are present in twelve countries and UNISTOCK is itself

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<sup>4</sup> Regulation (EC) No 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed, OJ L 268, 18.10.2003, p. 1.

a full member of COCERAL. Commodity imports enter the EU by sea and transit through sea-port silos. The main storekeepers managing these silos are members of UNISTOCK.

Also see: <http://www.unistock.be/>

- Processors

FEDIOL, the federation of the EU vegetable Oil and Protein Meal Industry, represents the interests of the European crushers of oilseed meal producers and vegetable oil producers/processors. Its members represent 80% of the EU industry.

Also see: <http://fediol.eu/>

These associations represent the majority of European operators importing, handling and processing viable cotton commodity. They work closely with a continuous and efficient flow of communication between them, particularly, through the documentation that needs to accompany any shipment containing GMOs in accordance with the labelling and traceability requirements of Regulation (EC) No 1830/2003, and are therefore best placed to observe and report any unanticipated adverse effects.

Other networks consisting of operators further down the food and feed chain have not been selected for the general surveillance of viable GHB614 cotton, because they focus on processed, non-viable material.

#### *Additional sources of information*

In addition to the aforementioned existing monitoring systems, extensive independent research by scientists with a wide range of expertise is another valuable source of information on potential adverse effects arising from the use of GMOs. The authorisation holder shall actively screen relevant reports and peer-reviewed publications on the use of GHB614 cotton, in order to identify potential unforeseen adverse effects linked to GHB614 cotton.

#### 2.6. Monitoring methodology

The authorisation holder, together with other members of the plant biotechnology industry and CropLife Europe, shall implement general surveillance of viable GM cotton, with the help of the selected networks described in Section 2.5.

The different parties agreed on a general framework for monitoring of GMOs including this GHB614 cotton, as follows:

- The authorisation holder represented by CropLife Europe shall:

- Agree with the operators before adding or amending activities that fall under their responsibility in accordance with the proposed PMEM plan;
- Inform operators concerning the authorisation, safety and general characteristics of GHB614 cotton and of the conditions as to general surveillance;
- Set up and maintain a website dedicated to operators including detailed information on GHB614 cotton.

The website, hosted on the CropLife Europe website under <https://croplifeeurope.eu/product-information/>, contains the following information:

- An introduction to the purpose of the website;
- A table giving an overview of all currently approved GM plant products subject to general surveillance;
- A profile for every approved GM plant product providing documentation on characteristics and safety, positive EFSA opinion(s) and Commission Decision(s) authorising the GM plant product in the EU;
- A contact point at CropLife Europe for information exchange on any of the GM plant products.

The website shall be regularly updated in order to further facilitate and ensure a transparent process for general surveillance and easy access to relevant information for operators.

- Contact the selected networks of operators annually reminding them of their agreement to report on any unanticipated adverse effects (or absence thereof).
- The selected networks of operators (European trade associations) shall:
  - Inform and remind their members organisations and companies on an annual basis:
    - To monitor for potential unanticipated adverse effects;
    - That, in the framework of their management or safety standards (ISO, HACCP, etc.), procedures must be put in place and implemented to limit losses and spillage of viable cotton and to routinely eradicate adventitious populations on their premises – any such adventitious populations, resisting routine eradication procedures, shall be treated as potential adverse effects;
    - To inform and remind their own member companies of this requirement;
    - To report back any adverse effect reported to them to the European trade associations.
  - Report the authorisation holders directly or via CropLife Europe:
    - At least annually, regardless of whether an adverse effect was observed or not;
    - Immediately any adverse effects reported to them.

Consequently, the European trade associations COCERAL, UNISTOCK and FEDIOL shall notify CropLife Europe of the results of the general surveillance on an annual basis. CropLife Europe shall forward this report to the respective authorisation holders for inclusion in their annual report to the European Commission, as described in Section 3.

The general surveillance information reported to and collected by the authorisation holder from the European trade associations or other sources shall be analysed for its relevance. Where information indicates the possibility of an unanticipated adverse effect, the authorisation holder shall immediately investigate to determine and confirm whether a significant correlation between the effect and GHB614 cotton can be established. If the investigation establishes that GHB614 cotton was present when the adverse effect was identified, and confirms that GHB614 cotton is the cause of the adverse effect, the authorisation holder shall immediately inform the European Commission, as described in Section 3.

### **3. Reporting the results of monitoring**

In accordance with Regulation (EC) No 1829/2003, the authorisation holder is responsible to inform the European Commission of the results of the general surveillance.

If information that confirms an adverse effect of GHB614 cotton and that alters the existing risk assessment becomes available, the authorisation holder shall immediately investigate and inform the European Commission. The authorisation holder, in collaboration with the European Commission and based on a scientific evaluation of the potential consequences of the observed adverse effect, shall define and implement management measures to protect human and animal health or the environment, as necessary. It is important that the remedial action is proportionate to the significance of the confirmed effect.

The authorisation holder shall submit an annual monitoring report including results of the general surveillance in accordance with the conditions of the authorisation. The report shall contain information on any unanticipated adverse effects that have arisen from handling and use of viable GHB614 cotton.

The report shall include a scientific evaluation of the confirmed adverse effect, a conclusion of the safety of GHB614 cotton and, as appropriate, the measures that were taken to ensure the safety of human and animal health or the environment.

The report shall also clearly state which parts of the provided information are considered to be confidential, together with a verifiable justification for confidentiality in accordance with Article 30 of Regulation (EC) No 1829/2003. Confidential parts of such report shall be submitted in separate documents.

### **4. Review and adaptation**

The PMEM plan and associated methodology shall be reviewed and updated or adapted as necessary.