



FORMAT FOR THE PRESENTATION OF THE RESULT OF DELIBERATE RELEASE INTO THE ENVIRONMENT OF GENETICALLY MODIFIED HIGHER PLANTS IN ACCORDANCE WITH ARTICLE 10 OF DIRECTIVE 2001/18/EC

*The report format shall be completed by the notifier. The notifier shall fill in the report format according to the proposed form (tick boxes and/or, as far as possible, specific keywords to use in text fields). The notifier shall illustrate as much as possible the reported data by means of diagrams, figures and tables. Statistical data could also be provided where relevant. In the case of multi-sites, multi-events and/or multi-annual release(s), the notifier shall provide a general overview of the measures taken and effects observed for the full duration of the consent. The space provided after each item is not indicative of the depth of the information required for the purposes of this report.*

**1. General information**

**1.1 European notification number:** [B/ES/06/12](#)

**1.2 Member State of notification:** [Spain](#)

**1.3 Date of consent and consent number:** [3 -6- 2006 , B/ES/06/12](#)

**2. Report status**

**2.1 Please indicate whether, according to Article 3 of the present Decision, the current report is:** [the final report](#).

**3. Characteristics of the release**

**3.1 Scientific name of the recipient organism:** [Gossypium hirsutum](#)

**3.2 Transformation event(s) (acronym(s)) or vectors<sup>1</sup> used (if transformation event identity not available):** [T303-3](#)

**3.3 Unique identifier, if available:**

**3.4 Please provide the following information as well as the field(s) lay-out:**

<sup>1</sup> In the case of small scale field trials where several lines may be tested, the vectors used should be mentioned, which gives insight into the introduced traits and/or genetic elements. In the case of large(r) scale trials, the number of events notified is limited to only one or a few events.



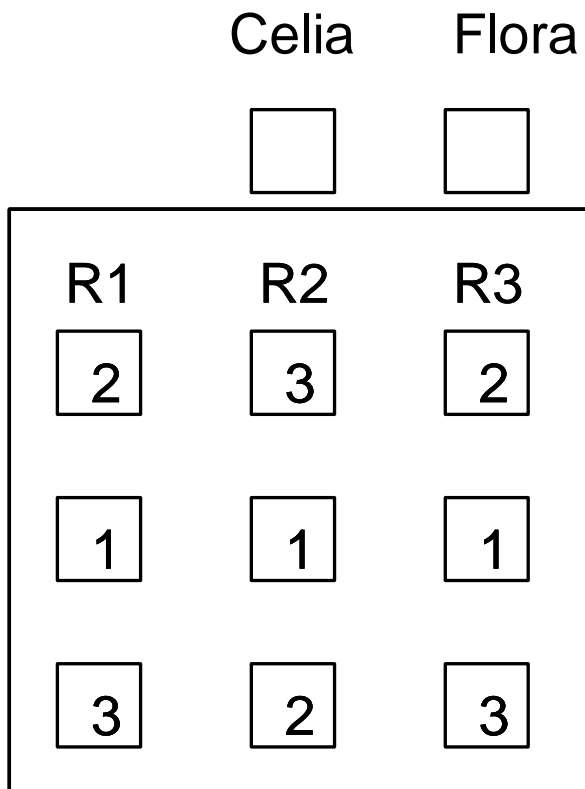
<b>Geographical location(s)</b> (administrative region and, where appropriate, grid reference)  <u>Comunidad Autónoma de Cataluña –Province of Tarragona</u>	<b>Size of the release site(s)<sup>2</sup></b> (m <sup>2</sup> )	<b>Identity<sup>3</sup> and approximate number of GM higher plants per event actually released</b> (number of seeds/plants per m <sup>2</sup> )  <b>Event T303-3</b>	<b>Duration of the release(s)</b> (from.....(day/month/year).....until... ..(d/m/y).....)
<b>-Tarragona Termino municipal: Mont-Roig, Polígono 4, Parcela 15</b>	Total surface: 13.640 m <sup>2</sup>  size GM parcel: 8 lines x 0.95 m width and 7.0 m length	18 seeds / m <sup>2</sup>	From 05/06/06 to 30/12/06
<b>-Tarragona Termino municipal: Uldecona, Polígono 5, Parcela 225</b>	Total surface: 20.700 m <sup>2</sup>  size GM parcel: 8 lines x 0.95 m width and 7.0 m length	18 seeds / m <sup>2</sup>	From 05/06/06 to 30/12/06
<b>-Tarragona Termino municipal: Vinyols, Polígono 11, Parcela 92-95</b>	Total surface: 20.220 m <sup>2</sup>  Size GM parcel: 8 lines x 0.95 m width and 7.0 m length	18 seeds / m <sup>2</sup>	From 05/06/06 to 22/08/06

<sup>2</sup> Specify the size of the GM area and, where appropriate, the size of the non-GM area (e.g. non-GM border).

<sup>3</sup> Vectors used.



<p><b>-LLeida Termino municipal: Albesa, Polígono 501,Parcela 2</b></p>	<p>Total surface:18.480 m<sup>2</sup>  Size GM parcel:8 rows x 0.95 m width and 7.0 m length</p>	<p>18 seeds / m<sup>2</sup></p>	<p>From 06/06/06 to 30/12/06</p>
<p><b>-LLeida Termino municipal: Torres de Segre, Polígono1, Parcela 28</b></p>	<p>Total surface:15.857 m<sup>2</sup>  Size GM parcel:8 rows x 0.95 m width and 7.0 m length</p>	<p>18 seeds / m<sup>2</sup></p>	<p>From 02/06/06 to 21/08/06</p>
<p><b>-LLeida Termino municipal: Torres de Segre, Polígono501, Parcela 1</b></p>	<p>Total surface:13.200 m<sup>2</sup>  Size GM parcel:8 rows x 0.95 m width and 7.0 m length</p>	<p>18 seeds / m<sup>2</sup></p>	<p>From 02/06/06 to 21/08/06</p>
<p><b>-LLeida Termino municipal: Bell-lloc, Polígono 4, Parcela 95</b></p>	<p>Total surface: 14.200 m<sup>2</sup>  Size GM parcel:8 rows x 0.95 m width and 7.0 m length</p>	<p>18 seeds / m<sup>2</sup></p>	<p>From 02/06/06 to21/08/06</p>



### 1: Experimental layout glufosinate resistance and insect tolerance field trial

1: Experimental layout: three blocks R1, R2 and R3, total randomized.

Treatment 1: Conventional cotton, no treated with glufosinate

Treatment 2: GM cotton no treated with glufosinate

Treatment 3: GM Cont. Treated with glufosinate

Parcel = 8 rows x 0.95 m width and 7.0 m length;

Buffer zone: 12 rows x 0.95 m between parcels and all around the trial

(Commercial variety). Between parcels always 12 m, in external borders sometimes less, but always >4 rows.

Isolation distance from any other commercial cotton: minimum 200 m.

Commercial control: Flora and Celia varieties



Any kind of product that the notifier intends to notify at a later stage

**4.1 Does the notifier intend to notify the released transformation event(s) as product(s) for placing on the market under Community legislation(s) at a later stage?**

Yes No  Unknown to date

If yes, indicate the country(-ies) of notification :

Unknown to date

If yes, specify for which use(s):

- Import
- Cultivation (e.g. Seed/planting material production)
- Food
- Feed
- Pharmaceutical use (or processing for pharmaceutical use)
- Processing for
  - Food use
  - Feed use
  - Industrial use
- Others (specify): .....

**5. Type(s) of deliberate release(s)**

Please select the main type(s) (in boxes) as well as sub-type(s) of the release(s). In the case of multi-sites, multi-events and/or multi-annual release(s), please provide a general overview of the type(s) of deliberate release(s) which has/have been carried out for the full duration of the consent. Please tick the appropriate type(s):

**5.1 Deliberate release(s) for research purposes**

**5.2 Deliberate release(s) for development purposes**

- Event screening
- Proof of concept<sup>4</sup>
- Agronomic performances (e.g. efficiency/selectivity of plant protection product, yield capacity, germination capacity, crop establishment, plant vigour, plant height, susceptibility to climatic factors/diseases, etc) (Specify)  
 Biodiversity studies and agronomic evaluation, evaluation of glufosinate tolerance and Lepidoptera resistance under the climatic conditions of the Spanish cotton cultivation zone, and the efficacy on the problem weeds of cotton, as well as the environmental behaviour (survivability, dormancy) of the Genetically Modified Organism

<sup>4</sup> E.g. testing the new trait under environmental conditions.



- Altered agronomic properties (e.g. disease/pest/drought/frost resistance, etc) (Specify)
- Altered qualitative properties (prolonged shelf-life, enhanced nutritional value, modified composition, etc) (Specify)
- Stability of the expression
- Multiplication of lines
- Hybrid vigour study
- Molecular farming<sup>5</sup>
- Phyto-remediation
- Others: (Describe).....

<b>5.3</b>	<b>Official testing</b>	<input type="checkbox"/>
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- Variety registration on a national variety catalogue
  - DUS (= **D**istinctness **U**niformity **S**tability)
  - VCU (= **V**alue of **C**ultivation and **U**se)
- Others: (Specify).....

<b>5.4</b>	<b>Herbicide authorisation</b>	<input type="checkbox"/>
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<b>5.5</b>	<b>Deliberate release(s) for demonstration purposes</b>	<input type="checkbox"/>
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<b>5.6</b>	<b>Seeds multiplication</b>	<input checked="" type="checkbox"/>
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<b>5.7</b>	<b>Deliberate release(s) for biosafety/risk assessment research</b>	<input checked="" type="checkbox"/>
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- Vertical gene transfer studies
  - Out-crossing with conventional crops
  - Out-crossing with wild relatives
- Horizontal gene transfer studies (gene transfer to micro-organisms),
- Management of volunteers
- Potential changes in persistence or dispersal
- Potential invasiveness
- Potential effects on target organisms X
- Potential effects on non-target organisms X
- Observation of resistant relatives
- Observations of resistant insects
- Others: (Describe).....

<b>5.8</b>	<b>Other(s) type(s) of deliberate release(s):</b>	<input type="checkbox"/>
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(Describe) .....

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<sup>5</sup> 'Molecular farming' means the production of substances (for instance, proteins, pharmaceuticals) by plants, which have been genetically modified for a particular trait. 'Molecular farming' could be defined as well as the production of plant-synthesised pharmaceuticals, plant-made pharmaceuticals, plant-based proteins production, etc.



**6. Method(s), result(s) of the release, management and monitoring measure(s) in respect of any risk to human health or the environment**

**6.1 Risk management measure(s):**

Please report the risk management measures, which have been used to avoid or minimise the spread of the GMO(s) outside the site(s) of release, and in particular those measures

- which were not originally notified in the application,
- which were applied in addition to the conditions in the consent,
- which the consent required only under certain conditions (e.g. dry periods, flooding),
- for which the consent allowed the notifier a choice among different measures.

Tick the examples where appropriate:

**6.1.1 Before the sowing/planting:**

- Clear labelling of the GM seeds/planting material lots (distinct from other seeds/tubers/etc) (Describe) **X**

Seeds were packed in double bags which were closed until sowing. The seed sacks were clearly labelled as containing GM material.

- Segregation during the processing and transport of the seed/planting material (describe the method involved; provide example(s) of containment to prevent spillage during the processing and transport)

Seed were stored and transported separate from other no GM seeds. These were securely sealed to ensure containment during transport to the trial site. Only the necessary number of seeds has been transported to the field trials

- Destruction of superfluous seeds/planting material (Describe the method involved)

The seeds have been weighted before and after the planting, the sowing machine was calibrated and all remaining seed will be sent to BayerBioScience N.V. for disposal.

- Temporal isolation (Specify)
- Rotation (Specify the previous crop(s))

**-Tarragona**

**Termino municipal Mont-Roig, Polígono 4, Parcela 15 : Cauliflower**

**-Tarragona**

**Termino municipal, Uldecona, Polígono 5, Parcela 225: Pepper (summer), Cauliflower (winter)**

**-Tarragona**

**Termino municipal, Vinyols, Polígono 11, Parcela 92-95: Peach tree.**

**-LLeida**

**Termino municipal, Albesa, Polígono 501,Parcela 2: Cauliflower**

**-LLeida**



**Termino municipal, Torres de Segre, Polígono1, Parcela 28: Alfalfa**

**-LLeida**

**Termino municipal, Torres de Segre, Polígono 501, Parcela 1: Barley**

**-LLeida**

**Termino municipal, Bell-lloc, Polígono 4, Parcela 95 : Transgenic maize**

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– Other(s): (Specify) .....





**6.1.2 During the sowing/planting activities:**

Method of sowing/planting: Commercial seed drilling machinery, Monosem NG Plus.

- Emptying and cleaning of the sowing/planting machinery on the field of release:  
At the end of the individual plot sowing, the remaining seeds in the machine (if any) were collected, stored and will be sent back to Bayer BioScience N.V.
- Segregation during the sowing/planting (Provide example(s) of containment to prevent spillage during the sowing/planting):
- Other(s): (Specify)  
All people involved with the trials have been trained to prevent involuntary release/spillage. The access to the trials was limited only to authorized people.

**6.1.3 During the period of release:**

- Isolation distance(s) (x metres)
  - from sexually compatible commercial plant species:
    - more than 200m from non-experimental cotton.
    - from sexually compatible wild relatives: NA (Not applicable)
  - Border row(s) (with the same crop or a different one, with a non-transgenic crop, x metres, etc):

Twelve border rows x 1 m, of 7 m length between parcels and 4 rows or more around the whole trial were drilled with non-transgenic cotton

- Cage/net/fence/signpost (Specify): NA
- Pollen trap (Specify):

Twelve border rows x 1 m, of 7m length between parcels, 4 rows or more were drilled around the whole trial with a non-transgenic cotton as a pollen trap

- Removal of GM inflorescences before flowering (Indicate the frequency of the removal): NA
- Removal of bolters/relatives/hybrid partners (Indicate the frequency of the removal, x metres around the GM field, etc): NA
- Other(s): (Specify) .....

**6.1.4 At the end of the release:**

- Harvest/destruction methods (of crop or parts of it)/other means (e.g., sampling and analysis of sugar beet pulp). (Describe):

All the harvested has been made by hand. Once the harvest was finished, or when the field trials have been destroyed before the production of the seedbolls, all vegetable



materials have been destroyed chemically with an herbicide different from glufosinate and mechanically (rotovation).

- Harvest/destruction before the ripeness of the seeds:

The field trials of:

**-Tarragona Termino municipal, Vinyols, Polígono 11, Parcela 92-95**  
**-LLeida, Termino municipal: Torres de Segre, Polígono1, Parcela 28**  
**-LLeida, Termino municipal: Torres de Segre, Polígono 501, Parcela 1**  
**-LLeida, Termino municipal: Bell-lloc, Polígono 4, Parcela 95**

Have been destroyed chemically and mechanically (rotovation) before the formation of the seedbolls due to a poor emergence of the plants, because of hydric stress, or insect attacks (*Agriotes lineatus*), or bad agronomic condition for the cotton crop.

- Effective removal of plant parts:

yes, by spraying and rotovating (as described above).

- Segregated storage and transport of crop/waste (Provide example(s) of containment to prevent spillage of collected seeds/crops/wastes):

None of the plants or plant part have been transported outside the authorized field trials.

- Clean up of machinery on the release site:

Yes, machinery thoroughly cleaned.

- Destination of the waste, treatment of waste/surplus yield/plant residues (Describe):

All the fields have been rotovated . No cultivation in place a part for the location Uldecona Polígono 5 Parcela 225: cauliflower

The plant residues have been chemically destroyed and incorporate into the soil by rotovation.

- Post-harvest treatment and cultivation measures on the release site (Describe the method(s) for preparing and managing the release site at the end of the release, including cultivation practices):

- Other(s): (Describe).....

#### 6.1.5 Post-harvest measures

Please indicate which measures were taken on the release site after the harvest (termination):



Frequency of visits (average): **Approximately every month**

– Subsequent crop (Specify):

**Any other crop then cotton**

– Crop rotation (Specify):

**Any other crop then cotton**

Fallow / no crop (Specify):

-- Superficial soil work/no deep ploughing

– False-sowing beds

– Control of volunteers (Specify intervals and duration):

The release sites will be visited several times after the trial destruction to confirm that the farmer will not drill commercial cotton on that site and to control potential volunteer plants. If needed, any undesired plant emerged would be mechanically destroyed or by using herbicides (other than glufosinate).

– Appropriate chemical treatment(s) (Specify):

– Appropriate soil treatment(s) (Specify):

– Others (Please specify)

**6.1.6 Other(s) measure(s): (Describe)**

**6.1.7 Emergency plan(s)**

Indicate

a) if the release proceeded as planned

– Yes

No (Describe for which reason? E.g. Vandalism, climatic conditions, etc): **X**

**As described previously, four locations have been destroyed before the formation of the seedbolls, due to climatic and agronomic conditions.**

**In all the locations the density of sowing was higher, due to the agronomic and climatic conditions.**

**The gene flow trial was not performed, it has been done with an other event in the same location: result from this trial are applicable to the T303-3 event.**



b) if measures according to the emergency plan(s) (Article 6 (2) (a)(vi) and Annex III.B of Directive 2001/18/EC) had to be taken:

No X

– Yes (Describe):.....

## 6.2 Post-release monitoring measures

*Due to the fact that the current report format can be used for the final and post-release monitoring report(s), the notifier is asked to clearly make the difference between both types of report through this section 2 of Chapter 6. Please indicate whether*

– **The post-release monitoring plan will start** (in the case of a final report, after the last harvest of the GM higher plants), **NA**

**The post-release monitoring plan is ongoing** (in the case of an intermediary post-release monitoring report), **X**

– **The post-release monitoring plan has been completed** (in the case of the final post- release monitoring report), **NA**

– **No post-release monitoring plan has to be fulfilled.** **NA**

The results of this monitoring are meant to confirm or invalidate earlier assumptions in the risk assessment.

According to the afore-mentioned cases, please indicate which monitoring measure(s) will be/are/were taken and where (on the release site/near the site (e.g. on fields edges)). Please be aware that all post-release monitoring measures taken during the whole post-release period shall be indicated here.

Specify:

– Monitoring measures within site

Duration:

**One year from the date of the destruction of the trial.**

Frequency of visits (average): **Approximately every 2 months**

– Observation of resistant relatives: **NA**

– Observation of resistant insects: **NA**

**X** Control of volunteers (specify intervals and duration): **Regular visits, more frequent if volunteers will be detected.**

– Monitoring of gene flow (specify): **NA**

– Appropriate chemical treatment(s) and/or soil treatment(s): **NA**

– Others (Specify): **NA**

- Monitoring measures of adjacent areas: **NA**

Duration:

Frequency of visits (average):

Area monitored:

– Observation of resistant relatives



- Observation of resistant insects
- Control of volunteers and/or monitoring of feral populations (specify intervals and duration)
- Monitoring of gene flow (specify)
- Appropriate chemical treatment(s) and/or soil treatment(s)
- Others (please specify)

### 6.3 Plan for observation(s)/Method(s) involved

In this section the observation plan and the methods used to collect the effects, which have to be reported under the next section (Section 6.4), need to be specified. Any amendments or modifications to the plan as proposed in the application and the SNIF<sup>6</sup> Part B need to be specified in detail.

During the time between the notification and the final report submission, new scientific insights or methods may be developed which cause a change in the methods used. In particular these modifications need to be specified under this section.

### 6.4 Observed effect(s)

#### 6.4.1 Explanatory note

All results of the deliberate release(s) in respect of any risk for human health or the environment shall be stated, without prejudice to whether the results indicate that any risk is increased, reduced or remains unchanged.

The main objectives of the information given in this section are:

- to confirm or invalidate any assumption regarding the occurrence and impact of potential effect(s) of the GMO(s) which was/were identified in the environmental risk assessment,
- to identify effect(s) of the GMO(s) which was/were not anticipated in the environmental risk assessment.

The observed **effect(s)/interaction(s)** of the GMO(s)

- with respect to any risk to human health,
- with respect to any risk to the environment

shall be reported under this section.

Particular attention shall be drawn to unexpected and unintended effect(s).

Indications as regards the effects, that the notifier may have to report, are provided hereunder. The effects have obviously to be considered in the light of the crop, the new trait, the receiving environment as well as the conclusions of the environmental risk assessment, which is carried out on a case-by-case basis.

In order to structure the information and to facilitate an efficient search within the given information, the notifier shall use, as far as possible, specific keywords to fill in the text fields under Chapter 6, especially sections 6.4.2, 6.4.3 and 6.4.4. A most updated list of those specific keywords is available on the Internet at <http://gmoinfo.jrc.it>

#### 6.4.2 Expected effect(s)

<sup>6</sup> Summary Notification Information Format (= SNIF)



'Expected effects' refer to potential effects which were already identified in the environmental risk assessment of the notification and could therefore be anticipated shall be addressed under this section.

Notifiers should supply data from the deliberate release(s) which validate the assumptions made in the environmental risk assessment.

The environment risk assessment has not identified any risk for the human health or the environment as a result of the release into the environment of the T303-3 event. No difference in growing or development have been detected with GM cotton in comparable way with the conventional cotton. No environment problems have been detected in the trials.

#### 6.4.3 *Unexpected effect(s)*<sup>7</sup>

'Unexpected effects' refer to effects on human health or the environment, **which were not foreseen or identified in the environmental risk assessment** of the notification. This part of the report should contain any information with regard to unexpected effects or observations relevant for the initial environmental risk assessment. In case of any observed unexpected effects or observations, this section should be as detailed as possible to allow a proper interpretation of the data.

No unexpected effects were observed during the course of the monitoring.

#### 6.4.4 *Other information*

Notifiers are encouraged to supply information, which is outside the scope of the notification but which might be relevant to the field trials in question. This may also include observations of beneficial effects.

### 7. **Conclusion**

In this chapter, the notifier should specify the conclusions drawn and the measures taken or to be taken on the basis of the results of the release with regard to further release(s) and, where appropriate, make reference to any kind of product the notifier intends to notify at a later stage.

No negative effects on human health and the environment have been observed.

**The information provided in this report is not considered confidential in accordance with Article 25 of Directive 2001/18/EC.**

**This does not prevent the competent authority from requiring additional information from the notifier, both confidential and non-confidential.**

**In the case of confidential data, it should be provided in an annex to the report format, with a non-confidential summary or general description of these data,**

<sup>7</sup>

Without prejudice to Article 8 of Directive 2001/18/EC as regards handling of modifications or new information



**which will be made available to the public.**

DATE: [15 February 2007](#).