

**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**

1. GENERAL INFORMATION

1.1 *European notification number* : B/ES/05/11

1.2 *Member State of notification* : Spain

1.3 *Date of consent and consent number* : 19/05/2005

2. REPORT STATUS

2.1 *Please indicate whether, according to Article 3 of the present Decision, the current report is :*

√ the final report

- a post-release monitoring report

- final - intermediary

3. CHARACTERISTICS OF THE RELEASE

3.1 *Scientific name of the recipient organism* : *Zea maiz*

3.2 *Transformation event(s) (acronym(s) or vectors) used (if transformation event identity not available)*: 1507 maize

3.3 *Unique identifier, if available* : DAS-01507-1

3.4 *Please provide the following information as well as the field(s) layout :*

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-scale trials, the number of events notified is limited to only one or a few events.

Destruction date Montañana H5: 24th Nov 2005

Destruction date Lalueza: 25th Nov 2005

Destruction date Bell-Lloc: 1st Dec 2005

Destruction date Montañana L7: 2nd Dec 2005

<p>1.- Finca Estación Experimental Aula Dei Avenida Montañana 1005 50900 - Zaragoza Paraje: Zona Lona H5 Polígono 16 Parcela 19 ARAGON MN7224HP/MV8735 DAS 1507 392 plants BE4207HP7MV8735 DAS 1507 408 plants 6RC172HP7PES02 DAS 1507 416 plants BE1146HP/MV8735 DAS 1507 406 plants DKC3565 MON 810 356 plants ARISTIS Bt MON 810 352 plants 33P67 MON 810 334 plants</p>	<p>2.- Finca Estación Experimental Aula Dei Avenida Montañana 1005 50900 - Zaragoza Paraje: Zona Lona L7 Polígono 16 Parcela 13 ARAGON MN7224HP/MV8735 DAS 1507 270 plants BE4207HP7MV8735 DAS 1507 290 plants 6RC172HP7PES02 DAS 1507 314 plants BE1146HP/MV8735 DAS 1507 274 plants DKC3565 MON 810 310 plants ARISTIS Bt MON 810 288 plants 33P67 MON 810 298 plants</p>
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3.- Dña. Mª Luisa Peralta 22190 - Lalueza Huesca Paraje: Monroy Polígono 12 Parcelas: 63 y 64 ARAGON MN7224HP/MV8735 DAS 1507 400 plants BE4207HP7MV8735 DAS 1507 389 plants 6RC172HP7PES02 DAS 1507 375 plants BE1146HP/MV8735 DAS 1507 372 plants DKC3565 MON 810 332 plants ARISTIS Bt MON 810 314 plants 33P67 MON 810 399 plants	4.- Draude S.L. 25057-Bell-Lloc de Urgell Lleida Paraje: Vinyes Velles Polígono: 22 Parcela: 056 CATALUÑA MN7224HP/MV8735 DAS 1507 256 plants BE4207HP7MV8735 DAS 1507 265 plants 6RC172HP7PES02 DAS 1507 260 plants BE1146HP/MV8735 DAS 1507 240 plants DKC3565 MON 810 285 plants ARISTIS Bt MON 810 230 plants 33P67 MON 810 296 plants
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4. 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 (it has already been done)
 Unknown to date

If yes, indicate the country (ies) of notification : It has already been notified

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 pour
- 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 subtype(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):

3

5.1 Deliberate release(s) for research purposes



- 5.2 *Deliberate release(s) for development purposes*
- Event screening
 - Proof of concept
 - 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)
 - 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 farming³
 - Phyto-remediation
 - Others : (specify)

- 5.3 *Official testing*
- Variety registration on a national variety catalogue
 - DUS (=Distinctness, Uniformity and Stability)
 - VCU (=Value of Cultivation and Use)
 - Others : (specify) :

5.4 Herbicide authorization

5.5 Deliberate release(s) for demonstration purposes

5.6 Seeds multiplication

5.7 Deliberate release(s) for biosafety/risk assessment research

- 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
- Potential effects on non-target organisms
- Observation of resistant relatives

²For example, testing the new trait under environmental conditions.

³« 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.

- Observation of resistant insects
- Others : (describe)

5.8 Other(s) type(s) of deliberate release(s) :
(describe) :

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 (distinct from other seeds/tubers/etc.) (describe)
Seeds were packed in triple bags which are closed until planting. Each bag was clearly labelled.

- 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 seeds. Only seed needed for starting the trial were transported on that way to the field.

- Destruction of superfluous seeds/planting material (describe the method involved).
Seeds from each bag were counted before seeding, remaining seeds were buried.

- Temporal isolation (specify)
- Rotation (specify the previous crop)
- Other(s) : (specify)

6.1.2 During the sowing/planting activities :

- Method of sowing/planting (describe)
Seeds were planted with a standard sowing machine which allows an easy cleaning of the remaining seeds.

- Emptying and cleaning of the sowing machinery on the field of release.
At the end of the individual plot sowing, the remaining seeds in the machine (if any) were buried at the end of the plot.

- Segregation during the sowing (provide example of containment to prevent spillage during the sowing/planting).

The seed bags had the required seeds.

- Other(s) : (specify)

All personnel involved with the trials has been trained to prevent involuntary release/spillage.

6.1.3 During the period of release :

- Isolation distance (x meters) from sexually compatible wild relatives

More than 200 m from commercial maize.

- Border rows (with the same crop or a different one, with a non-transgenic crop, x meters, etc)

Four border rows were seeded around the whole trial with a non-transgenic commercially available hybrid of similar relative maturity as a pollen trap. At the end of the release, these rows were destroyed and treated as transgenic plants.

- Cage/net/fence/signpost (specify)

- Pollen trap (specify) see above.

- Removal of GM inflorescences before flowering (indicate the frequency of removal)

- Other(s) : (specify)

6.1.4 At the end of the release :

- Harvest/destruction methods (of crop or part of it) / other means (e.g.: sampling) (describe)

The plants were chopped and ploughed.

- Harvest / destruction before the ripeness of the seeds

- Effective removal of plant parts

- Segregated storage and transport of crop/waste (provide examples of containment to prevent spillage of collected seeds/crops/wastes)

None of the seeds or plant parts were moved outside the trial site.

- Clean up of machinery on the release site.

All the machinery used was cleaned on the release site.

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

Waste plants were discarded at the trial area for naturally composting.

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

Trials area has been turned over in autumn and the plant material as chopped and buried.

- Other(s) : (describe)

6.1.5 Post-harvest measures:

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

Frequency of visits (average) Aproximately every two months

- Subsequent crop (specify)

The following crop will be any crop different from commercial maize.

- Crop rotation (specify)

The following year will be any crop different from commercial maize.

- Fallow/no crop (specify)

- Superficial soil work / no deep ploughing

- False-sowing beds

- Control of volunteers (specify intervals and duration).

The release site will be visited several times after the trial destruction to confirm that the farmer will not sow commercial maize 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 gluphosinate ammonium).

- Appropriate chemical treatment(s) (specify)
- Appropriate soil treatment(s) (specify)
- Other(s) (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.)

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

Yes (describe)

6.2 Post-release monitoring measures

Monitoring results confirm that 1507 maize plants do not present a risk for the human, animal health and the environment.

Specify :

Monitoring measures within site

Duration : from December 2005 to October 2006.

Frequency of visits (average) : approximately every two months

Observation of resistant relatives and of resistant insects.

Control of volunteers (specify intervals and duration) Regular visits will be more frequent if some volunteers are detected.

Monitoring of gene flow (specify)

Appropriate chemical treatment(s) and/or soil treatment(s)

Others (specify)

Monitoring measures of adjacent areas:

Not applicable

Duration

Frequency of visits (average) :

Area monitored :

Observation of resistant relatives and 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 (specify)

6.3 Plan for observation(s)/methods(s) involved

General observations on plant health, susceptibility to diseases, on development of the plants will be carried out.

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.

1507 maize plants didn't show any risk to human, animal health and the environment.

6.4.2 Expected effect(s)

The environmental risk assessment has not identified any risk for the human health or the environment as a result of the release into the environment of 1507 maize. 1507 maize plants have developed normally, in a comparable way with the non GM near isogenic line. No environment problems were detected in the trial

6.4.3 Unexpected effect(s)

A poor germination has been observed on both 1507 maize and on the conventional non-GM maize, probably due to the late drilling date as well as soil preparation and management.

6.4.4 Other information

Not relevant

7. CONCLUSION

The trials have been carried out in the predicted manner. No negative effects to human health or the environment have been observed. 1507 maize plants have grown as expected.