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/10/20

1.2 Member State of notification:

Spain

1.3 Date of consent and consent number:

15/04/2010

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:

Beta vulgaris

3.2 Transformation event(s) (acronym(s) or vectors¹ used (if transformation event identity not available):

H7-1 sugar beet

3.3 Unique identifier, if available:

KM-ØØØH71-4

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¹ 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.

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

Geographical local location or places (administrative region and coordinates of reference when it proceeds)	Local surface or places (m²)	Identity and approximate number of top plants MG liberated really by every event (N º of seeds / plants for m²)	Duration of her or the liberations: (Of (day / month / year)up to (day / month / year
Laguna de Negrillos-1	Not planted		
Laguna de Negrillos-2	Not planted		
Laguna de Negrillos-3	755 m ²	15 plants/m ²	19/05/10- 04/10/10
Laguna de Negrillos-4	Not planted		
Laguna de Negrillos-5	545 m ²	15 plants/m ²	19/05/10-04/10/10
Magaz de Pisuerga-1	Not planted		
Magaz de Pisuerga-2	1260 m ²	15 plants/m ²	21/05/10-06/10/10
Bobadilla del Campo-1	Not planted		
Bobadilla del Campo-2	Not planted		
VillaLazán	1210 m ²	15 plants/m ²	20/05/10-05/10/10

	ANY KIN TAGE	D OF PRODUCT THAT THE N	OTIFIER INTENDS TO NOTIFY AT LA	TER
p		•	the released transformation event(sunder Community legislation(s) at a	•
	∃Yes	$\boxtimes N_0$	☐Unknown to date	
•	s, specify Impor Cultiv Food Feed Pharm	te the country(-ies) of notification of the country (see	ial production)	
		Feed use		
-	–□ Others	Industrial use s (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):

5.1 Delibe	rate release(s) for research purposes			
5.2 Deliberate release(s) for development purposes 区				
	Event screening Proof of concept Agronomic performances (e.g. efficiency/selectivity of product, yield capacity, germination capacity, crop evigour, plant height, susceptibility to climatic factors/dise	stablishment, plant		
	Improved agronomic properties (e.g. disease/pest/droug etc) (Specify)			
	Improved qualitative properties (prolonged shelf-life, e value, modified composition, etc) (Specify)	nhanced nutritional		
	Stability of the expression Multiplication of lines Hybrid vigour study Molecular farming Phyto-remediation			
	Others:			
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 Herbio	cide authorization			
5.5 Deliberate release(s) for demonstration purposes □				
5.6 Seeds	5.6 Seeds multiplication			
5.7 Delibe	rate 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 micr Management of volunteers Potential changes in persistence or dispersal Potential invasiveness	o-organisms),		

Potential effects on target organisms	
Potential effects on non-target organisms	
Observation of resistant relatives	
Observations of resistant insects	
Others: (Describe)	

Syngenta

6	METHOD(S),	RES	ULT(S)	OF	THE	REL	EASE,	MAN	AGEMENT	AND]	MON	ITOI	RING
	MEASURE(S)	IN	RESPE	CT	OF	ANY	RISK	TO	HUMAN	HEAL	ГН (OR	THE
	ENVIRONMEN	IT.											

Without prejudice to the specific environmental risk assessment as well as to the consent conditions, the notifier shall provide the following information in respect of any effect for human health or the environment. 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.

6.1 Risk management measure(s)

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

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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 labeling of the GM seeds (distinct from other seeds/tubers/etc.) (describe).

Seeds lots were packed in sealed paper bags in facilities authorized to carry out confined release of GMOs; the bags remained closed until planting. Each paper bag was clearly labeled with a unique identifier code and an indication that it was containing GM seeds. The name of the event was also mentioned. All the bags containing the seeds lots were contained into a sealed and labeled box.

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 transported in a triple closing package and were managed in the trials by qualified staff. Transport of the seeds to the field trial site was done on the day of planting.						
⊠ involv	☑ Destruction of superfluous seeds/planting material (describe the method involved).					
The ren	naining seeds of the sowing have been buried inside the perimeter of the test.					
	Temporal isolation (specify).					
	Rotation (specify the previous crop).					
	Other(s): (specify)					
6.1.2	During the sowing/planting activities:					
X	Method of sowing/planting.					
	owing has been carried out by means of a pneumatic drill specially adapted for tural experimentation					
X	Emptying and cleaning of the sowing/planting machinery on the field of release					
All equipment used to seed was free of plant material before entering the trial site. After sowing, all the equipment used for planting was cleaned on the trial site to eliminate unintended transport of any seed or plant material from the trial site. The residual seed recovered during the process of cleaning were buried in the soil of the alley of the trial The drill is equipped with an automatic system to avoid mixtures, separating in a specific container all the seeds not sowed in his corresponding plot. The remaining seeds of the sowing have been buried inside the perimeter of the test.						
x prever	Segregation during the sowing/planting (Provide example(s) of containment to ent spillage during the sowing/planting).					
The planting procedure with identification of each seeds lot in separate bags avoids seed mixing during the planting operation. After the sowing of each seeds lot, the remaining seeds in the micro-plot planter were recovered in a dedicated device or in the seeds tank.						
	Other(s): (specify)					
6.1.3	During the period of release:					
X	Isolation distance (x meters)					
	From sexually compatible commercial plant species.					
	A distance of at least 5 m from conventional sugar beet fields.					
	From sexually compatible wild relatives.					
	In the zone there does not exist risk of transfer of genes to wild relatives.					

□ x met	Border rows (with the same crop or a different one, with a non-transgenic crop, ers, etc). Not proceed		
	Cage/net/fence/signpost (specify). Not proceed		
	Pollen trap (specify). Not proceed		
区 remov	Removal of GM inflorescences before flowering (indicate the frequency of val).		
Visual	monitoring once every 3 weeks.		
□ remov	Removal of bolters/relatives/hybrid partners (indicate the frequency of the val, x meters around the GM field, etc).		
Not pr	roceed		
\boxtimes	Other(s): (specify)		
	have been monitored on a weekly base (in average) during the growing season; onally have been inspected by experts and competent authorities.		
6.1.4	At the end of the release:		
X	Harvest/destruction methods (of crop or part of it) / other means (e.g.: sampling)		
introd and fi big ho All the	peet roots were harvested with an experimental combine. All the roots were used in closed containers, weighted and prepared for its transport to the laboratory nal destruction. All the roots and remaining material after analysis was buried into a le and treated with calcium oxide. The other plant materials remaining in the field trial area suffered mechanical grinding as mechanically incorporated into the soil.		
	Harvest / destruction before the ripeness of the seeds.		
Not pr	roceed		
\boxtimes	Effective removal of plant parts.		
Not pr	roceed		
□ contai	Segregated storage and transport of crop/waste (provide examples of inment to prevent spillage of collected seeds/crops/wastes).		
Not pr	roceed		
X	Clean up of machinery on the release site.		
	ombine and all the equipment used for harvesting and plant material destruction were ed before leaving the field trial area.		
⊠ (descr	Destination of the waste, treatment of waste/ surplus yield/plant residues ribe).		

 \times

Yes

with calcium oxide. All the other plant materials remaining in the field trial area suffered mechanical grinding and was mechanically incorporated into the soil. X 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). Conventional soil cultural practices in the area were followed after the trial termination. Other(s): (describe): **6.1.5** Post-harvest measures: Please indicate which measures were taken on the release site after harvest: X Frequency of visits (average): One each 6 weeks. X Subsequent crop (specify): Sugar beet will not be grown on the trial sites during the following year after field trial termination. X Crop rotation (specify): Sugar beet will not be grown on the trial sites during the following year after field trial termination. Fallow/no crop (specify): Not proceed Superficial soil work / no deep ploughing: Not proceed False-sowing beds: Not proceed X Control of volunteers (specify intervals and duration). Specific monitoring will be implemented along the following year. Any volunteer sugar beet appearing in the field will be eliminated before flowering. Appropriate chemical treatment(s) (specify): Not proceed Appropriate soil treatment(s) (specify): Not proceed Other(s) (specify): Not proceed 6.1.6 Other(s) measure(s): (describe) 6.1.7 Emergency plan(s). Indicate: a) If the release proceeded as planned:

All the roots and remaining material after analysis was buried into a big hole and treated

	No (des	scribe 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:			
\boxtimes	No		
	Yes (de	escribe)	
6.2 Post-relea	se mon	itoring measures	
monitoring rep	port(s),	the current report format can be used for the final and post-release the notifier is asked to clearly make the difference between both that this section 2 of Chapter 6. Please indicate whether	
		ase monitoring plan will start (in the case of a final report, after GM higher plants)	
The results of them risk asse		onitoring are meant to confirm or invalidate earlier assumptions in	
will be/are/we Please be awa	re taken re that a	rementioned cases, please indicate which monitoring measure(s) and where (on the release site/near the site (e.g. on fields edges)). all post-release monitoring measures taken during the whole post-indicated here.	
Specify:			
- Monitoring r	neasure	s within site	
Duratio	on: duri r	ng the following year upon field trial termination.	
Freque	ncy of v	visits (average): 1 visit each 6 weeks.	
	□ ⊠ visits. □	Observation of resistant relatives. Not proceed Observation of resistant insects. Not proceed Control of volunteers (specify intervals and duration). at regular Monitoring of gene flow (specify). Not proceed. Appropriate chemical treatment(s) and/or soil treatment(s). Not	
	proceed	Others (specify).	
- Monitoring r		s of adjacent areas:	
Duratio	on: durir	ng the following year upon field trial termination	
Freque	ncy of v	visits (average): 1 visit each 6 weeks.	
Area m	nonitore	d:	
		Observation of resistant relatives. Not proceed Observation of resistant insects. Not proceed	

	Control of volunteers (specify intervals and duration). at regular
visits.	
	Monitoring of gene flow (specify). Not proceed.
	Appropriate chemical treatment(s) and/or soil treatment(s). Not
procee	ed
Other	s (specify).

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

With the aim to detect any unexpected effect on non-target organisms, a monitoring program has been implemented through a series of systematic observations in the field trial

No unexpected or adverse effects have been detected.

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 and 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)

The H7-1 sugar beet plants have developed following good agronomic characteristics. No adverse effect has been observed for the human health or the environment.

6.4.3 Unexpected effect(s) 2

We have not observed any unexpected or adverse effect for the human health or the environment.

² Without prejudice to Article 8 OF Directive 2001/18/EC as regards handling of modifications or new information.

6.4.4 Other information

7 CONCLUSION

The field trials have developed as it was foreseen and has not been observed any unexpected or adverse effect. In consequence the conclusions of the environmental risk assessment have been confirmed

DATE: 10/02/2011