

INGEKOMEN 11 APR. 2012

DESCRIPTION OF INTENDED ACTIVITIES

1. GENERAL INFORMATION

1.1 Number of the License

IM 11-005

1.2 Year to which this Description of Intended Activities applies

2012

2. DESCRIPTION OF THE ACTIVITIES

2.1 Describe the aim of the trials:

Objective of the field trials is to compile data on agronomic and resistance performance, as well as to collect plant material for further analyses.

2.2 Describe the experimental design used:

The attached map of the field trial layout (see confidential section, 4.1) outlines the design of the field trial.

2.3 If the activities are conducted by people who are not on the License Holder's staff, or if any activities are conducted in an area that is not the property of the License Holder, please specify how the License Holder will exercise control over the activities involving genetically modified organisms. This may be done e.g. by briefly stating how this aspect is regulated in concluded contracts. Any such contracts must be attached to the Logbook.

The field trial area is being leased from a private farmer. The experimental work is in part carried out by this service provider, in part by staff of BASF Plant Science. The contract between service provider and BASF Plant Science specifies in detail which work is to be carried out. All staff at the service provider involved in the field trial are trained prior to working with the genetically modified plant lines.

Answer Questions 2.4 through 2.6 for Class 1 field trials in which a barrier zone is imposed (if applicable. For all other field trials, go to Question 2.7.

2.4 Is the barrier zone entirely located in the area over which you have control? If not, go to Question 2.5. If yes, go to Question 2.7.

Yes,

2.5 Can farming* be conducted within the barrier zone over which you have no control? If no, go to Question 2.6. If yes, go to Question 2.7.

No

2.6 Have you entered into written agreements with the party(parties) who has(have) control over the farming* that may (possibly) be conducted within the barrier zone and over which you have no control, including an agreement that the cultivated crop in question is not to be grown in the barrier zone at the time of your field trials?

Not applicable

2.7 Describe the experimental design of consumption trials if these form part of the follow-up investigations:

No consumption trials will be performed.

2.8 Describe the experimental design of all aspects that can be monitored and which form part of the Monitoring Plan that is submitted with this Application.

During the field trial, several aspects of agronomic performance will be measured and scored. Especially susceptibility to *Phytophthora infestans* and other pests will be evaluated. Also e.g., emergence, growth habit, and flower color will be observed. The year following the release the trial area will be monitored for the appearance of volunteer plants.

2.9 Specify the names of the GMPs and describe briefly the nature of the genetic modification of the various plants involved in the trials, e.g. by naming the construct used in the plants.

Line number	Construct	Parental material	Consent
PH05-026-0048	VCPMA16	P880	IM 07-007

2.10 Describe the phenotypes of the plant lines to be used.

The genetically modified potato lines to be released are comparable to their mother lines with regard to the plant characteristics. This is based on observations in the greenhouse as well as in previous field trials in many countries including the Netherlands (2006, 2008 and 2009 trials). In the following the characteristics of the mother lines are given:

Properties of used lines	
Ripening	Medium
Growth habit	Stem type
Flower colour	White
Flowering	Abundant
Berry formation	Frequently
Tuber shape	Oval
Tuber skin	Yellow

2.11 Describe how the GMPs differ from the parent plant:

The genetically modified potato lines differ from the mother varieties in resistance to infection by *Phytophthora infestans*. The insertion of the *Solanum bulbocastanum* Rpi-blb1 and Rpi-blb2 genes leads to the ability of the potato to withstand infection by *Phytophthora infestans*. The introduced selectable marker gene acetohydroxyacid synthase (ahas) confers resistance to herbicides from the imidazolinone family in tissue culture.

2.12 Specify the number of GMPs used in the trials.

The following table specifies the number of tubers to be released for each genetically modified potato line:

Line number	Number of tubers
PH05-026-0048	1120 tubers

2.13 Specify the area of the test plot (m²).

The area planted with the potato lines including the paths between the plots will cover about 4000 m².

- 2.14 Specify the starting date and the expected finishing date between which the trials are to be carried out, i.e. the period between sowing or planting on the one hand, and the harvest and waste disposal on the other hand.**

The expected planting date is end of April to beginning of May. Harvest of the tubers is most likely to occur in September or October, dependent on weather conditions.

- 2.15 Specify the place used for storing the plant components at present and in the future.**

Planting material will be transported to the field at the day of intended planting or few days before planting. Intermediate storage will be done in a locked facility on the farm. Tubers harvested from the field may be temporarily stored in a locked facility on the farm. From this location they will be transported to Germany for further analysis and/or disposal.

- 2.16 Specify the method used for storing the plant components at present and in the future.**

Only intermediate storage for a few days will be conducted in a locked facility on the farm.

- 2.17 Describe how any special regulations not mentioned above as stipulated in Article 3 are to be complied with.**

Not applicable.

Answer the following questions if applicable.

- 2.18 Specify the period during which the plants are expected to flower.**

Flowering time will most likely be late June, begin of July.

- 2.19 Specify the frequency with which the appearance of flower-heads is checked.**

The trial and the agronomic performance of the plants will be observed at least every two weeks.

- 2.20 Describe how the flower-heads are to be removed.**

Not applicable.

- 2.21 Describe how feeding trials are to be conducted.**

Not applicable.

3. WASTE DISPOSAL

- 3.1 Describe the composition of the expected waste material.**

The expected waste material will be composed of the remains after harvest, i.e. excess tubers and inactivated potato haulm. The waste material produced is derived from the remains after harvest and sorting. Green parts will remain on the field for decomposition. Waste tubers will be disposed by e.g. steaming.

- 3.2 Describe how the waste material will be processed.**

The tuber material will be collected and transported to Germany for further analysis and/or destruction, e.g. by heat. The potato haulm will be inactivated prior to harvest. Aerial plant parts will remain at the release site for decomposition.

SIGNATURE

Name of legal entity

Date: 10. April 2012

BASF Plant Science Company GmbH

Name:

Dr. Andreas Heise