

Animal and Plant Health Agency

APHA Genetic Modification Inspectorate

Growing season field inspection report: consent 22/R29/01 (2024 release)

A report of a field inspection visit to an experimental genetically modified (GM) crop trial to assess compliance with Part VI of the Environmental Protection Act 1990 and the Genetically Modified Organisms (Deliberate Release) Regulations 2002.

Genetically Modified Organism (GMO) consent details

Consent reference: 22/R29/01 ('Part B' consent)

Consent holder: The Sainsbury Laboratory

Crop type: Potato (*Solanum tuberosum* L.)

Site details: Bawburgh, Norfolk

OS Reference: TG 150 088

Details of the GMO

The GMOs are potatoes (*Solanum tuberosum* L. – including but not limited to cultivars Maris Piper and Charlotte) transformed with one or a combination of the following genes:

- *Rpi-vnt1.1* from *Solanum venturii*
- *Rpi-amr3* from *Solanum americanum* (both domesticated and non-domesticated)
- *Rpi-amr1* from *Solanum americanum* (both domesticated and non-domesticated)
- *Rysto* from *Solanum stoloniferum*
- p-*Agp* promoter from *Solanum tuberosum*
- sense and anti-sense fragments of *Ppo* from *Solanum tuberosum*
- sense and anti-sense fragments of *Vlnv* from *Solanum tuberosum*
- spacer sequence between sense and antisense fragments from *Solanum tuberosum*
- p-*Gbss* promoter from *Solanum tuberosum*
- *NRC6* from *Solanum lycopersicum*
- *hero* from *Solanum lycopersicum*
- the *CSR* allele of *ALS* from *Solanum lycopersicum*
- *NptII* and p-*bla* promoter from *Escherichia coli*
- Isopentenyl transferase (*ipt*) gene from *Agrobacterium tumefaciens*
- extra Ti plasmid left border sequence from *Agrobacterium tumefaciens*
- dummy and end-linker sequences of synthetic origin.

Purpose of the release:

To test field performance of the novel potato plants.

Site inspection details

Inspection date: 17 July 2024

Site reference: TSL-22/R29/01-SITE01-2024-INSP_01.

Personnel seen: Lead Researcher

Inspection details

The Genetic Modification Inspectorate (GMI) carried out an inspection of this 2023-planted research trial of GM potatoes at the flowering stage. Checks were made on the location, size and layout of the trial, the status of the 20m border, and the measures in place to restrict human access to the site. The GMI also reviewed the methods that had been employed for planting the GMOs, the procedures in place for management and monitoring of the release site during the growing season, and the Consent Holder's plans for harvest and disposal of plant material. All were in accordance with the requirements specified in the consent document.

Conclusions and actions

Report conclusions

The GMI is content that the release is consistent with the conditions and limitations specified in the consent. No risks to human health or the environment, posed by the genetically modified organism, were identified.

Action required or taken: None

APHA GM Inspectorate

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18 July 2024