

United States Department of Agriculture

Marketing and Regulatory Programs Chee Hark Harn, PhD

Director, Seed R & BD Headquarters

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Seoul, South Korea 08501

Animal Plant Health Inspection Service

RSR number 21-245-01rsr

Biotechnology Regulatory Services RE: Regulatory Status Review of potato developed using genetic engineering for StPPO2 gene knockout

Dear Dr. Harn:

4700 River Road Riverdale MD 20737

Thank you for your letter dated October 27, 2021, requesting a Regulatory Status Review (RSR) for potato with altered tuber quality developed using genetic engineering (modified potato). In your letter, you described that the potato was modified to reduce enzymatic browning via knockout of a tissue specific polyphenol oxidase gene (*StPPO2*).

The Plant Protection Act of 2000 (7 U.S.C. §§ 7701 et seq.) provides USDA authority to oversee the detection, control, eradication, suppression, prevention, or retardation of the spread of plant pests to protect agriculture, environment, and the economy of the United States. USDA, through the Animal and Plant Health Inspection Service (APHIS), regulates the "Movement of Organisms Modified or Produced through Genetic Engineering" as described in 7 CFR part 340.

Consistent with 7 CFR 340.4, APHIS reviewed your modified potato to determine whether it is subject to the regulations in 7 CFR part 340. Specifically, APHIS reviewed the modified potato to determine whether there is a plausible pathway by which the potato, or any sexually compatible relatives, would pose an increased plant pest risk relative to the plant pest risk posed by an appropriate potato comparator. Based on information you provided, publicly available resources, and APHIS' familiarity with potato and knowledge of the trait, phenotype, and mechanism of action, APHIS considered the (1) biology of nonmodified potato and its sexually compatible relatives; (2) the trait and mechanism-of-action of the modification; and (3) the effect of the trait and mechanism-of-action on the (a) distribution, density, or development of the plant and its sexually compatible relatives, (b) production, creation, or enhancement of a plant pest or a reservoir for a plant pest, (c) harm to non-target organisms beneficial to agriculture, and (d) weedy impacts of the plant and its sexually compatible relatives. APHIS did not identify any plausible pathway by which your modified potato, or any of its sexually compatible relatives, would pose an increased plant pest risk relative to comparator potato. Once APHIS determines that a plant product is unlikely to pose an increased plant pest risk relative to its comparator, and, thus, is not a plant pest or a plant that requires regulation because it is capable of introducing or disseminating a plant pest, APHIS has no authority to regulate it under 7 CFR part 340. Accordingly, your potato is not subject to the regulations under 7 CFR part 340.

Please be advised that APHIS' decision applies to the potato developed using genetic engineering exactly as described in your letter. If at any time you become aware of any information that may affect our review of your modified potato, including, for example, new information that shows the trait, phenotype, or mechanism of action is different than described in your letter, you must contact APHIS for further review of the plant at RSRrequests@usda.gov.

Please be advised that your plant product, while not regulated under 7 CFR part 340, may be subject to APHIS Plant Protection and Quarantine (PPQ) permit and/or quarantine requirements. For further information, you may contact the PPQ general number for such inquiries at 877-770-5990. Your plant product may also be subject to other regulatory authorities such as the U.S. Environmental Protection Agency (EPA) or the Food and Drug Administration (FDA). Please contact EPA and FDA to enquire about the regulatory status of your product.

Sincerely,

Bernadette Juarez

APHIS Deputy Administrator Biotechnology Regulatory Services Animal and Plant Health Inspection Service

U.S. Department of Agriculture

Date: September 29, 2022