

United States Department of Agriculture

Marketing and Regulatory Programs Marcia Weldon CoverCress, Inc

Regulatory & Stewardship Manager

Animal Plant Health Inspection Service RSR number 23-264-01rsr

acid in seeds, and reduced seed shatter

Biotechnology Regulatory Services

Dear Marcia:

4700 River Road Riverdale MD 20737 Thank you for your letter dated September 21, 2023, requesting a Regulatory Status Review (RSR) for pennycress developed using genetic engineering (modified pennycress). In your letter, you described that the pennycress was modified to impart lowered erucic acid in seeds via reduction or loss of fatty acid elongation 1 (FAE1), to confer lowered fiber in seeds via reduction or loss of transparent testa 8 (TT8), to confer lowered glucosinolate in seeds via reduction or loss of a CBI gene, to confer increased oleic acid in seeds via reduction or loss of a CBI gene, and to confer reduced seed shatter via reduction or loss of a CBI gene.

RE: Regulatory Status Review of Thlaspi arvense (pennycress) developed using genetic engineering

for lowered erucic acid in seeds, lowered fiber in seeds, lowered glucosinolate in seeds, increased oleic

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 pennycress to determine whether it is subject to the regulations in 7 CFR part 340. Specifically, APHIS reviewed the modified pennycress to determine whether there is a plausible pathway by which the pennycress would pose an increased plant pest risk relative to the plant pest risk posed by an appropriate pennycress comparator. Based on information you provided, publicly available resources, and APHIS' familiarity with pennycress and knowledge of the trait, phenotype, and mechanism of action, APHIS considered the (1) biology of nonmodified pennycress 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. APHIS did not identify any plausible pathway by which your modified pennycress would pose an increased plant pest risk relative to comparator pennycress plants. APHIS has determined your pennycress is unlikely to pose an increased plant pest risk relative to its comparators. 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 pennycress is not subject to the regulations under 7 CFR part 340. APHIS' determination that this modified plant is not subject to the regulations extends to any progeny of the modified plant that is derived from crosses with other non-modified plants or other modified plants that are also not subject to the regulations in 7 CFR part 340.

Please be advised that APHIS' decision applies to the pennycress 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 pennycress, 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.

April 12, 2024

Sincerely,

Bernadette Juarez APHIS Deputy Administrator Biotechnology Regulatory Services Animal and Plant Health Inspection Service U.S. Department of Agriculture

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