Corporation obtaining approval, the name of its representative, and the address of its main office

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Name: Monsanto Japan Limited

Applicant Seiichiro Yamane, President; seal

Address: 4-10-10, Ginza, Chuo-ku, Tokyo

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Approved Type 1 Use Regulation

Name of the Type of Living Modified Organism:	
Content of the Type 1 Use of Living Modified Organism:	Provision as food, provision as feed, cultivation, processing, storage, transportation, disposal, and acts incidental to them
Method of the Type 1 Use of Living Modified Organism:	-

Outline of the Biological Diversity Risk Assessment Report

Results of the review by persons with specialized knowledge and experience concerning Adverse Effects on Biological Diversity

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A review was made by persons with specialized knowledge and experience concerning Adverse Effects on Biological Diversity (called Experts) for possible Adverse Effects on Biological Diversity caused by the use in accordance with the Type 1 Use Regulation for Living Modified Organisms based on the Law concerning the Conservation and Sustainable Use of Biological Diversity through Regulations on the Use of Living Modified Organisms. Results of the review are listed below.

(1) Results of the assessment of Adverse Effects on Biological Diversity

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Glyphosate-induced male-sterile, Lepidoptera pest-resistant, and glyphosate herbicide-tolerant maize (including the progeny lines which are isolated from the maize lines, MON87427, MON89034 and NK603 and those which contain a combination of their respective transferred genes (except those already granted an approval regarding Type I Use Regulation)) (hereinafter referred to as "this stacked line") was developed with the following lines by crossing:

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Glyphosate-induced male-sterile and glyphosate herbicide-tolerant maize, to which the modified cp4 epsps gene coding for the modified CP4 EPSPS protein (5enolpyruvylshikimate-3-phosphate synthase) is transferred (MON87427),

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Maize resistant to Lepidoptera pest, to which the cry1A.105 gene coding for the Cry1A.105 protein and the modified cry2Ab2 gene coding for the modified Cry2Ab2 protein are transferred (MON89034), and

Maize tolerant to glyphosate herbicide, to which the modified cp4 epsps gene coding for the modified CP4 EPSPS protein (5-enolpyruvylshikimate-3-phosphate synthase) is transferred (NK603).

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It has been determined that the respective Bt proteins (the Cry1A.105 and modified Cry2Ab2 proteins) derived from the genes transferred to this stacked line do not interact with each other to change the specificity of the insecticidal effect in these proteins, because it is unlikely that the regions involved in the specificity are changed. Because the modified CP4 EPSPS protein, a protein with tolerance to herbicide, is highly substrate specific and there has been no report that Bt proteins have enzyme activities, it is unlikely that the protein with

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tolerance to herbicides and the Bt proteins interact with one another. Therefore it has been determined that these proteins do not interact to change the metabolic system of the recipient organism and produce unexpected metabolites in this stacked line.

- Based on the above, it is unlikely that these proteins derived from respective parent lines functionally interact with one another in the plant body of this stacked line, and therefore it has been concluded that there are no trait changes to be evaluated, except having the traits which the parent line had.
- The examination of the respective evaluation items of the parental lines has already been completed*in the Committee meeting. Based on the results of the examination, the conclusion described in the Biological Diversity Risk Assessment Report that the use of the respective parent lines in accordance with the Type I Use Regulation causes no Adverse Effects on Biological Diversity in Japan has been judged to be reasonable.

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- a. Competitiveness
- b. Productivity of harmful substances
- c. Crossability
- * The results of the evaluation of the respective parental lines are available as described below.

[MON87427]

http://www.bch.biodic.go.jp/download/lmo/public_comment/H23_11_24_MON87427s p3.pdf

25 [MON89034]

https://ch.biodic.go.jp/bch/OpenDocDownload.do?info_id=1002&ref_no=2

[NK603]

https://ch.biodic.go.jp/bch/OpenDocDownload.do?info_id=88&ref_no=2

30 (2) Conclusion based on the Biological Diversity Risk Assessment Report

Based on the above understanding, the Biological Diversity Risk Assessment Report concluded that there is no risk that the use of this stacked line, in accordance with the Type 1 Use Regulation, causes Adverse Effects on Biological Diversity in Japan. It has been judged that the conclusion above made by the applicant is reasonable.