LIVING MODIFIED ORGANISM (LMO)

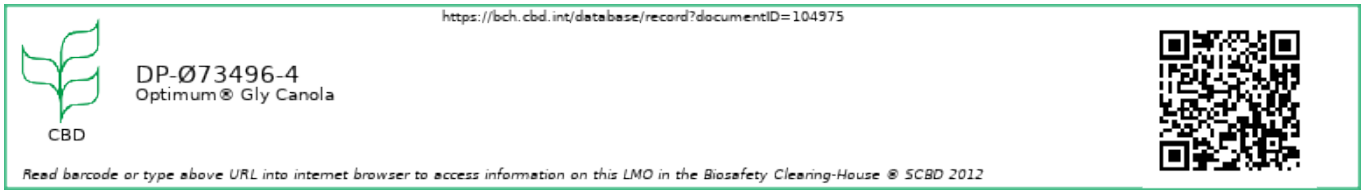
BCH-LMO-SCBD-104975-3

? Decisions on the LMO ? Risk Assessments

LAST UPDATED: 12 DEC 2013

Living Modified Organism identity

The image below identifies the LMO through its unique identifier, trade name and a link to this page of the BCH. Click on it to download a larger image on your computer. For help on how to use it go to the LMO quick-links page.



Name

Optimum® Gly Canola | EN

Transformation event

73496

Unique identifier

DP-Ø73496-4

Developer(s)

- ORGANIZATION: PIONEER HI-BRED INTERNATIONAL INC. | BCH-CON-SCBD-14931-2

ORGANIZATION

Pioneer Hi-Bred International Inc.
Private sector (business and industry)
7100 NW 62nd Avenue PO Box 1000
Johnston, Iowa
50131, United States of America
Phone: +1 515 535-3200
Website: www.pioneer.com/

Description

Canola modified for tolerance to the glyphosate herbicide through the insertion of the Glyphosate-N-Acteyltransferase gat4621 gene. | EN

Recipient Organism or Parental Organisms

The term “Recipient organism” refers to an organism (either already modified or non-modified) that was

subjected to genetic modification, whereas “Parental organisms” refers to those that were involved in cross breeding or cell fusion.

BCH-ORGA-SCBD-12083-7 ORGANISM | BRASSICA NAPUS (TURNIP, RAPESEED, CANOLA PLANT, OILSEED RAPE, RAPE, BRANA) |
Crops

Point of collection or acquisition of the recipient organism or parental organisms

Line 1822B EN

Related LMO(s)

BCH-LMO-SCBD-105040-2 | DP-Ø61Ø61-7 - Glyphosate tolerant canola | Pioneer Hi-Bred International Inc. | Resistance to herbicides (Glyphosate)

Characteristics of the modification process

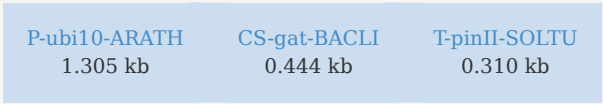
Vector

PHP28181 EN

Techniques used for the modification

Biolistic / Particle gun

Genetic elements construct



Introduced or modified genetic element(s)

Some of these genetic elements may be present as fragments or truncated forms. Please see notes below, where applicable.

BCH-GENE-SCBD-104802-5 POLYUBIQUITIN10 GENE PROMOTER | (THALE CRESS) |
Promoter

BCH-GENE-SCBD-48363-4 GLYPHOSATE-N-ACTEYLTRANSFERASE GENE |
Protein coding sequence | Resistance to herbicides (Glyphosate)

BCH-GENE-SCBD-100367-4 PROTEINASE INHIBITOR II GENE TERMINATOR | (POTATO) |
Terminator

Notes regarding the genetic elements present in this LMO

73496 canola has been genetically modified to express the GAT4621 version of the protein.

Southern blot analysis indicated that a single, intact PHP28181A DNA fragment was inserted into the genome with no plasmid backbone DNA. EN

LMO characteristics

Modified traits

Resistance to herbicides
Glyphosate

Common use(s) of the LMO

Food
Feed

Detection method(s)

External link(s)

? DP-073496-4 - GMOMETHODS *(English)*

Additional Information

Other relevant website addresses and/or attached documents

? Brassica gat event dp-073496-4 and compositions and methods for the identification and/or detection thereof US 20120131692 A1 *(English)*

? Brassica Gat Event Dp-073496-4 and Compositions and Methods for the Identification and/or Detection Thereof - Canadian Patents Database *(English)*

BCH-LMO-SCBD-104975-3

Further Information

Questions about the Cartagena Protocol on Biosafety or the operation of the Biosafety Clearing-House may be directed to the Secretariat of the Convention on Biological Diversity.

Secretariat of the Convention on Biological Diversity
413 rue Saint-Jacques, suite 800
Montreal, Québec, H2Y 1N9
Canada
Fax: +1 514 288-6588
Email: secretariat@cbd.int