





## **Biosafety Clearing-House (BCH)**

LIVING MODIFIED ORGANISM (LMO)

BCH-LMO-SCBD-15405-5

#### ? Decisions on the LMO ? Risk Assessments

LAST UPDATED: 15 MAY 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.

https://bch.cbd.int/database/record?documentID=15405



SYN-ØØØB-6 Tomato Modified for delayed softening



Read barcode or type above URL into internet browser to access information on this LMO in the Biosafety Clearing-House @ 5CBD 2012

Name

Tomato Modified for delayed softening

ΕN

Transformation event

66-51/08 (B)

Unique identifier

SYN-ØØØØB-6

Developer(s)

- ORGANIZATION: SYNGENTA | BCH-CON-SCBD-14926-2

**ORGANIZATION** 

Syngenta

Website: http://www.syngentaseeds.com

Description

Tomato with delayed softening through anti-sense suppression of polygalacturonase (PG) enzyme activity from insertion of the a partial polygalacturonase (pg) gene, a pectin degrading enzyme derived from tomato.

ΕN

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-12079-5 ORGANISM | SOLANUM LYCOPERSICUM (TOMATO, SOLLC)

Crops

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

T7 line EN

Related LMO(s)

BCH-LMO-SCBD-15407-6 | SYN-ØØØØF-1 - Tomato Modified for delayed softening | Changes in physiology and/or production - Ripening Resistance to antibiotics - Kanamycin BCH-LMO-SCBD-15406-6 | SYN-ØØØDA-9 - Tomato Modified for delayed softening | Changes in physiology and/or production - Ripening Resistance to antibiotics - Kanamycin

## Characteristics of the modification process

Vector

pJR16A EN

Techniques used for the modification

Agrobacterium-mediated DNA transfer

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-15001-5 NEOMYCIN PHOSPHOTRANSFERASE II | (BACTERIA)

Protein coding sequence | Resistance to antibiotics (Kanamycin)

BCH-GENE-SCBD-15015-6 POLYGALACTURONASE GENE | (TOMATO)

Protein coding sequence | Changes in physiology and/or production (Ripening)

BCH-GENE-SCBD-100287-7 CAMV 35S PROMOTER

Dromotor

BCH-GENE-SCBD-100269-8 NOPALINE SYNTHASE GENE TERMINATOR

Terminator

BCH-GENE-SCBD-100270-6 NOPALINE SYNTHASE GENE PROMOTER

Promoter

Notes regarding the genetic elements present in this LMO

Tomato with delayed softening through suppression of polygalacturonase (PG) enzyme activity from insertion of the a partial polygalacturonase (pg) gene, a pectin degrading enzyme derived from tomato.

ΕN

## **LMO** characteristics

Modified traits

Resistance to antibiotics

Kanamycin

Changes in physiology and/or production

Ripening

Common use(s) of the LMO

Food

### **Additional Information**

Additional Information

Reduced PG expression decreases the breakdown of pectin and leads to fruit with slowed cell wall breakdown, better viscosity characteristics and delayed softening. Tomato lines B, Da and F have improved harvest and processing properties that allow the transgenic tomatoes to remain longer on the vine to develop their natural flavour, maintain their firmness for shipping and produce a thicker consistency in processing.

Other relevant website addresses and/or attached documents

? SYN-ØØØØB-6 - CERA ( English )

? PG Tomato - Syngenta.pdf ( English )

BCH-LMO-SCBD-15405-5

# **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

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