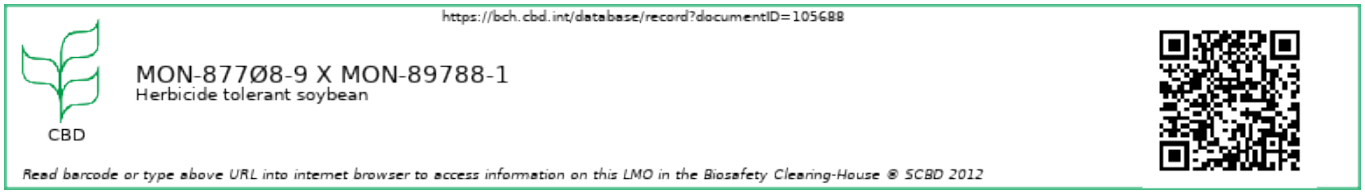
LIVING MODIFIED ORGANISM (LMO) BCH-LMO-SCBD-105688-1

? Decisions on the LMO ? Risk Assessments

LAST UPDATED: 22 JUL 2014

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

Herbicide tolerant soybean | EN

Transformation event

MON87708 x MON89788

Unique identifier

MON-877Ø8-9 x MON-89788-1

Developer(s)

- ORGANIZATION: MONSANTO | BCH-CON-SCBD-14925-3

ORGANIZATION

Monsanto
800 North Lindbergh Blvd.
St. Louis, MO
63167, United States of America
Phone: + 1 314 694-1000
Fax: +1 314 694-3080
Website: http://www.monsanto.com

Description

The stacked soybean line MON-877Ø8-9 x MON-89788-1 was obtained through the traditional cross breading of each of the parental organisms to produce a soybean that expresses each of Dicamba monooxygenase and EPSPS genes. The expression of these genes are expected to confer tolerance to dicamba and glyphosate herbicides. | 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-10453-6 ORGANISM | GLYCINE MAX (SOYBEAN, SOYA BEAN, SOYA, SOYBN) |
Crops

BCH-LMO-SCBD-104665-6 LIVING MODIFIED ORGANISM | MON-877Ø8-9 - DICAMBA TOLERANT SOYBEAN |
Resistance to herbicides

BCH-LMO-SCBD-40284-18 LIVING MODIFIED ORGANISM | MON-89788-1 - ROUNDUP READY2YIELD™ SOYBEAN |
Monsanto | Resistance to herbicides (Glyphosate)

Characteristics of the modification process

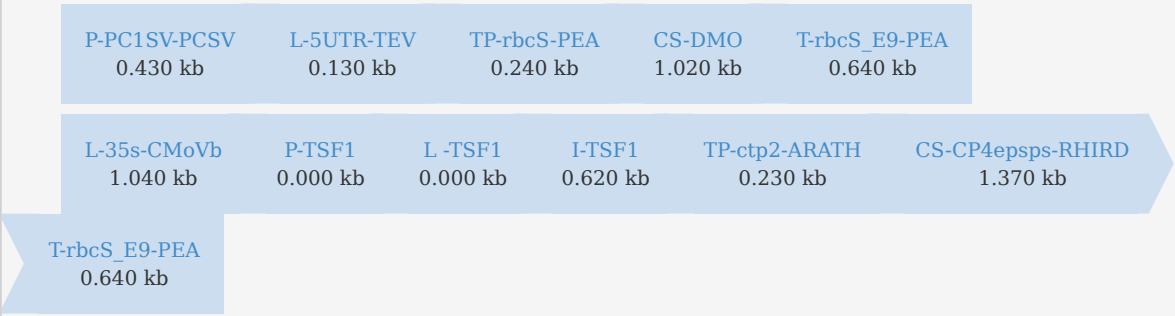
Vector

PV-GMHT4355 and PV-GMGOX20	EN

Techniques used for the modification

Cross breeding

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-104662-2 PC1SV PROMOTER | (PCSV, PCLSV) |
Promoter

BCH-GENE-SCBD-104664-2 TEV 5' UNTRANSLATED REGION | (TEV) |
Leader

BCH-GENE-SCBD-103616-4 RBCS TRANSIT PEPTIDE | (GARDEN PEA) |
Transit signal

BCH-GENE-SCBD-100728-2 DICAMBA MONOOXYGENASE GENE |
Protein coding sequence | Resistance to herbicides

BCH-GENE-SCBD-101877-5 RBCS-E9 GENE TERMINATOR | (GARDEN PEA) |
Terminator

BCH-GENE-SCBD-105196-2 FMV 35S ENHANCER |

Leader

BCH-GENE-SCBD-103903-1 ELONGATION FACTOR EF-1ALPHA PROMOTER | (THALE CRESS)

Promoter

BCH-GENE-SCBD-103904-1 ELONGATION FACTOR EF-1ALPHA LEADER | (THALE CRESS)

Leader

BCH-GENE-SCBD-103905-1 ELONGATION FACTOR EF-1ALPHA INTRON 1 | (THALE CRESS)

Intron

BCH-GENE-SCBD-100365-6 CHLOROPLAST TRANSIT PEPTIDE 2 | (THALE CRESS)

Transit signal

BCH-GENE-SCBD-14979-7 5-ENOLPYRUVYLSHIKIMATE-3-PHOSPHATE SYNTHASE GENE

Protein coding sequence | Resistance to herbicides (Glyphosate)

Notes regarding the genetic elements present in this LMO

DNA insert from MON-89788-1, vector PV-GMGOX20 MON89788 is a second-generation glyphosate-tolerant soybean product, was developed by introduction of the cp4 epsps gene cassette consisting of a chimeric promoter sequence derived from Arabidopsis thaliana Tsf1 gene promoter and enhancer sequences and from the 35S of the Figwort Mosaic Virus. **DNA insert from MON-877Ø8-9, vector PV-GMHT4355** MON 87708 soybean line was developed as a marker-free LMO to exhibit tolerance to dicamba (3,6-dichloro-2-methoxybenzoic acid) herbicide. For additional information on this LMO, please refer to the records of the parental LMOs.	EN

LMO characteristics

Modified traits

Resistance to herbicides

Glyphosate

Other

Resistance to Dicamba

Common use(s) of the LMO

Food

Feed

Detection method(s)

External link(s)

? MON-877Ø8-9 - GMOMETHODS *(English)*

? MON-89788-1 - EU Reference Laboratory for GM Food and Feed (EURL-GMFF) *(English)*

? Report on the Verification of the Performance of MON 87708 and MON 89788 Event-specific PCR-based Methods Applied to DNA Extracted from GM Stack MON 87708 x MON 89788 Soybean *(*

English)

Additional Information

Other relevant website addresses and/or attached documents

? MON-877Ø8-9 x MON-89788-1 - ISAAA *(English)*

? MON-877Ø8-9 x MON-89788-1 - GMO Compass *(English)*

BCH-LMO-SCBD-105688-1

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.

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