

68285

APR 30 2018 **NEW**
DATE REVIEWER

Plant-incorporated Protectant Label
Final Marketplace Product Label

Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn

Alternate Brand Names:
Agrisure Duracade® 5332 Refuge Renew™
Agrisure Duracade® 5332A Refuge Renew™

OECD Unique Identifier:
SYN-BT011-1 × SYN-IR162-4 × SYN-IR604-5 × MON-89034-3 × SYN- 05307-1

Plant-incorporated protectants:
Cry1Ab, Vip3Aa20, mCry3A, Cry1A.105, Cry2Ab2 and eCry3.1Ab insecticidal proteins

This product is effective in limiting corn leaf, stalk, ear, and root feeding damage caused by lepidopteran and coleopteran pests

Active Ingredients:

Bacillus thuringiensis Cry1Ab protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 corn (SYN-BT011-1).....≤0.0209%*

Bacillus thuringiensis Vip3Aa20 protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4).....≤0.0192%*

Bacillus thuringiensis mCry3A protein and the genetic material necessary for its production (via elements of vector pZM26) in MIR604 corn (SYN-IR604-5)≤0.00168%*

Bacillus thuringiensis Cry1A.105 protein and the genetic material necessary for its production (via elements of vector PV-ZMIR245) in MON 89034 corn (MON-89034-3)≤0.00448%*

Bacillus thuringiensis Cry2Ab2 protein and the genetic material necessary for its production (via elements of vector PV-ZMIR245) in MON 89034 corn (MON-89034-3).....≤0.0104%*

Bacillus thuringiensis eCry3.1Ab protein and the genetic material necessary for its production (via elements of vector pSYN12274) in 5307 Corn (SYN-05307-1).....≤0.0239%*

Other Ingredients:

Phosphinothricin acetyltransferase marker protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 corn (SYN-BT011-1)≤0.000140%*

Phosphomannose isomerase marker protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4) (via elements of vector pZM26) in MIR604 corn (SYN-IR604-5), and (via elements of vector pSYN12274) in 5307 corn (SYN- 05307-1)≤0.00493%*

*Percent (wt/wt) of whole plant on a dry weight basis

NET CONTENTS: _____

OR 67979-37

CAUTION
KEEP OUT OF REACH OF CHILDREN

EPA Registration No. 67979-37
NAFTA
EPA Establishment No. 66736-NC-01

Syngenta Seeds, LLC– Field Crops –
9 Davis Drive
Research Triangle Park, NC 27709

DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with this labeling

This plant-incorporated protectant (PIP) may be combined through conventional breeding with other registered PIPs that are similarly approved for use in combination to produce inbred corn lines and hybrid corn varieties with combined pesticidal traits. All seed corn containing this PIP must be accompanied by informational material (e.g. a bag tag) indicating the EPA registration number and the active ingredients, and stipulating that growers read the Syngenta Stewardship Guide (or equivalent guidance) prior to planting their seed. The refuge size requirement must be displayed on the seed bag or bag tag in both text and graphic format

Insects Controlled or Suppressed

Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn has been genetically transformed to produce the insecticidal proteins Cry1Ab, Vip3Aa20, mCry3A, Cry1A.105, Cry2Ab2, eCry3.1Ab for control or suppression of the following lepidopteran and coleopteran insects:

Northern corn rootworm (*Diabrotica barberi*)
Western corn rootworm (*Diabrotica virgifera virgifera*)
Mexican corn rootworm (*Diabrotica virgifera zea*)
Black cutworm (*Agrotis ipsilon*)
Southern cornstalk borer (*Diatraea crambidoides*)
Southwestern corn borer (*Diatraea grandiosella*)
Sugarcane borer (*Diatraea saccharalis*)
Lesser cornstalk borer (*Elasmopalpus lignosellus*)
Dingy Cutworm (*Feltia jaculifera*)
Corn earworm (*Helicoverpa zea*)
European corn borer (*Ostrinia nubilalis*)
Common stalk borer (*Papaipema nebris*)
True armyworm (*Pseudaletia unipuncta*)
Beet armyworm (*Spodoptera exigua*)
Fall armyworm (*Spodoptera frugiperda*)
Western bean cutworm (*Striacosta albicosta*)

Insect Resistance Management

Each bag of Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn contains 100% Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn seed. The following information regarding commercial production of Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn must be included in the Syngenta Stewardship Guide (or equivalent).

IRM Requirements for Corn-Growing Areas of the U.S.

In corn-growing areas, growers who plant Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn must plant a structured refuge. Corn-growing areas are those counties and states not defined below as comprising the cotton-growing areas of the U.S. Read the Syngenta Stewardship Guide or refer to the Table below.

IRM Requirements for Cotton-Growing Areas of the U.S.

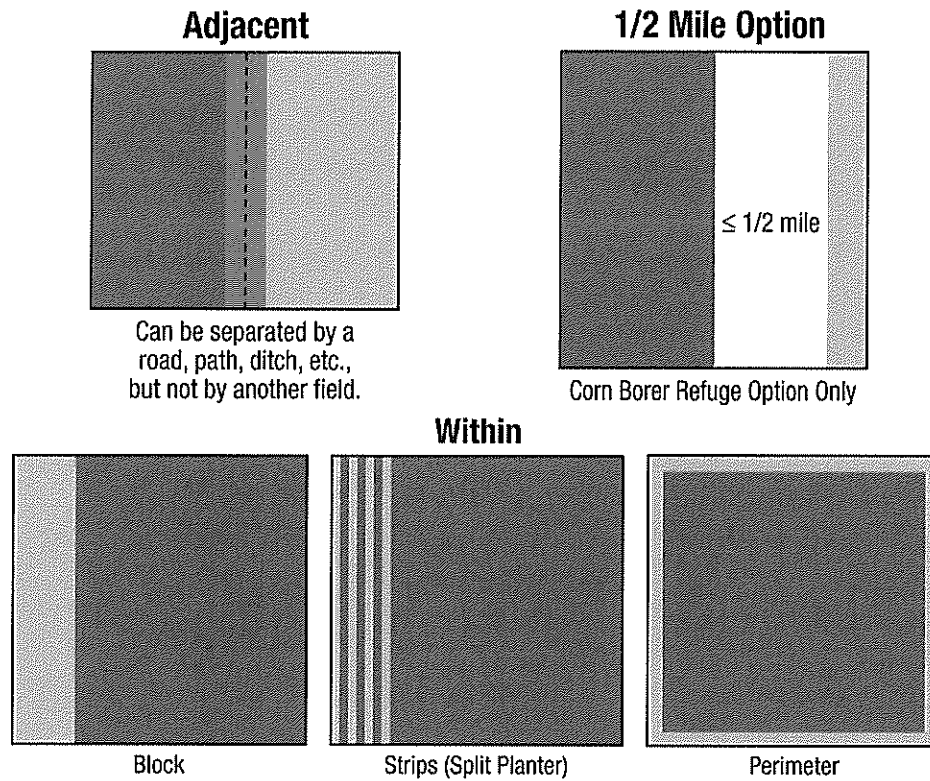
In cotton-growing areas growers who plant Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn must plant a 20% structured refuge. The following table lists those states and counties identified by the Environmental Protection Agency (EPA) as cotton-growing areas

State	Counties Identified by EPA as Cotton-Growing Areas			
Alabama	All Counties			
Arkansas	All Counties			
Florida	All Counties			
Georgia	All Counties			
Louisiana	All Counties			
Mississippi	All Counties			
Missouri	Dunklin Stoddard	New Madrid	Pemiscot	Scott
North Carolina	All Counties			
Oklahoma	Beckham Greer Kiowa	Caddo Harmon Tillman	Comanche Jackson Washita	Custer Kay
South Carolina	All Counties			
Tennessee	Carroll Fayette Hardin Lincoln Shelby	Chester Franklin Haywood Madison Tipton	Crockett Gibson Lake Obion	Dyer Hardeman Lauderdale Rutherford
Texas	All counties with the exception of the following:			
	Carson Hutchinson Roberts	Dallam Lipscomb Sherman	Hansford Moore	Hartley Ochiltree
Virginia	Dinwiddie Northampton Sussex	Franklin City Southampton	Greensville Suffolk City	Isle of Wight Surrey

The refuge must be planted with hybrids that do not contain Bt technologies. The refuge can be planted as strips within the field, perimeter strips, a block within the field, a block adjacent to the field, or a separate block within ½ mile of the Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn field. If in-field or perimeter strips are planted, the strips must be at least four consecutive rows wide.

The refuge in cotton-growing areas can be protected from feeding damage by application of non-Bt microbial insecticides if the population of one or more lepidopteran pests exceeds economic thresholds. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents or crop consultants). In addition, the refuge can be protected from corn rootworm feeding damage by use of an appropriate seed treatment or conventional insecticide.

The following are schematics of the various refuge deployment options:



The following text and graphic indicating the refuge size requirement will appear on Bt11 × MIR162 × MIR604 × MON 89034 × 5307 Corn bags or bag tags.

**Important grower information.
Supplemental refuge planting requirement.**



For more information, please refer to Syngenta Stewardship Guide.

