Bt11 x MIR162 x TC1507 Corn

[Alternate brand name: Agrisure™ Viptera™ 3220 Refuge renew]

OECD Unique Identifier: SYN-BT011-1 x SYN-IR162-4 x DAS-Ø15Ø7-1

Plant-incorporated protectant:
Cry1Ab, Vip3Aa20 and Cry1F proteins for control of corn borers and other lepidopteran pests

This product is effective in controlling corn leaf, stalk, and ear damage caused by certain lepidopteran pests.

Active Ingredients:

*Bacillus thuringiensis* Cry1Ab delta-endotoxin protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 corn (SYN-BT011-1) ............≤0.00103%*

*Bacillus thuringiensis* Vip3Aa20 insecticidal protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4)..........................................................≤0.00256%*

*Bacillus thuringiensis* Cry1F delta-endotoxin protein and the genetic material necessary for its production (plasmid insert PHI8999A) in TC1507 corn (DAS-Ø15Ø7-1).............................................................≤0.00077%*

Other Ingredients:

A marker protein and the genetic material necessary for its production (via plasmid insert PHI8999A and elements of vector pZO1502) in TC1507 corn (DAS-Ø15Ø7-1) and Bt11 corn (SYN-BT011-1) .............................................................................................................≤0.00017%*

A marker protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4)..............................................≤0.00025%*

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration No. 67979-15
EPA Establishment No. 66736-NC-01

Syngenta Seeds, Inc. - Field Crops - NAFTA
P.O. Box 12237
3054 East Cornwallis Rd.
Research Triangle Park, NC 27709

™ Agrisure is a trademark of a Syngenta Group company
™ Viptera is a trademark of a Syngenta Group company

Syngenta Seeds, Inc. p. 2 of 21
DIRECTIONS FOR USE

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

The subject registration will automatically expire on midnight March 29, 2023.

This plant-incorporated protectant may be combined through conventional breeding with other registered plant-incorporated protectants that are similarly approved for use in combination, through conventional breeding, with other registered plant-incorporated protectants to produce inbred corn lines and hybrid corn varieties with combined pesticidal traits.

All corn seed that contains the plant-incorporated protectant sold or distributed by Syngenta Seeds, Inc. or its distributors must be accompanied by informational material (e.g., a bag tag) indicating the registration number (67979-15) and the active ingredients, and stipulating that growers read the Grower Guide (or equivalent guidance) prior to planting the seed.

Insects Controlled or Suppressed

Field corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab, Vip3Aa20 and Cry1F, for control or suppression of the following lepidopteran insects:

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

Insect Resistance Management

These refuge requirements do not apply to seed increase/propagation of inbred and hybrid seed corn up to a total of 20,000 acres per county and up to a combined United States (U.S.) total of 250,000 acres per plant-incorporated protectant (PIP) active ingredient per registrant per year.
Refuge Requirements for Bt11 x MIR162 x TC1507 Corn

The following information regarding commercial production of Bt11 x MIR162 x TC1507 corn must be included in the Grower Guide (or equivalent).

Grower agreements (also known as stewardship agreements) will specify that growers must adhere to the refuge requirements as described in the grower guide/product use guide and/or in supplements to the grower guide/product use guide.

- Specifically, growers must plant a structured refuge of at least 5% non-Bt corn (20% in cotton growing* areas) and/or nonlepidopteran-resistant Bt corn that may be treated with insecticides, as detailed below, to control lepidopteran stalk-boring and other pests.

- Refuge planting options include the following: separate fields, blocks within fields (e.g., along the edges or headlands), perimeter strips, and strips across the field.

- An external refuge must be planted within 1/2 mile of the Bt11 x MIR162 x TC1507 corn field.

- When planting the refuge as strips across the field or as perimeter strips, the refuge must be at least four consecutive rows wide.

- Insecticide treatments for control of European corn borer (ECB), corn earworm (CEW), southwestern corn borer (SWCB), and other lepidopteran pests listed on the label, grower guides or other educational material may be applied only if economic thresholds are reached for one or more of these target pests. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents or crop consultants). Instructions to growers will specify that microbial Bt insecticides must not be applied to non-Bt corn and/or nonlepidopteran-resistant Bt corn refuges.

*Cotton-Growing Areas (as Identified by EPA) Required to Plant 20% Refuge Corn

Alabama – all counties
Arkansas – all counties
Florida – all counties
Georgia – all counties
Louisiana – all counties
Mississippi – all counties
Missouri – counties of:
    Dunklin Scott
    New Madrid Stoddard
    Pemiscot
North Carolina – all counties
Oklahoma – counties of:
    Beckham Jackson
    Caddo Kay
    Comanche Kiowa
    Custer Tillman
    Greer Washita
    Harmon
South Carolina – all counties
Tennessee – counties of:
    Carroll Haywood
    Chester Lake
    Crockett Lauderdale

Dyer Lincoln
Fayette Madison
Franklin Obion
Gibson Rutherford
Hardeman Shelby
Hardin Tipton

Texas – all counties EXCEPT:
    Carson Lipscomb
    Dallam Moore
    Hansford Ochiltree
    Hartley Roberts
    Hutchinson Sherman

(NOTE: these counties are required to plant at least 5% refuge corn)
Virginia – counties of:
    Dinwiddie Southampton
    Franklin City Suffolk City
    Greensville Surrey
    Isle of Wight Sussex
    Northampton

*Identified by EPA as cotton growing areas.

Syngenta Seeds, Inc.  p. 4 of 21
Grower agreements will specify that growers must adhere to the refuge requirements that will be described in the Grower Guide (IRM Guide) for Bt11 x MIR162 x TC1507 corn or other applicable product use documents.

Below is the text and graphics indicating the refuge size requirement to be included on Bt11 x MIR162 x TC1507 corn seed bags or bag tags.

Important grower information.
Please read before planting.

5% refuge
Corn-growing areas

20% refuge
Cotton-growing areas

For more information, please refer to the Syngenta Stewardship guide