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Zone: 1
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-8

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	09/12/2020	2	3	18/12/2020	20	0	-	-	4	4
2	15/12/2020	4	3	23/12/2020	20	5	2	0	4	4
3	18/12/2020	4	3	28/12/2020	20	1	0	-	4	4
4	21/12/2020	6	2	29/12/2020	12	0	-	-	3	3
5	18/12/2020	7	6	07/01/2021	60	4	0	-	4	4
6	04/01/2021	7	4	14/01/2021	29	2	0	-	4	4
7	07/01/2021	6	3	18/01/2021	32	0	-	-	4	4
8	11/01/2021	6	3	20/01/2021	24	0	-	-	4	4
9	13/01/2021	5	5	22/01/2021	40	1	0	-	4	4
10	18/01/2021	1	5	29/01/2021	51	0	-	-	4	4
11	18/01/2021	1	5	27/01/2021	52	0	-	-	4	4
12	19/01/2021	3	6	29/01/2021	63	0	-	-	4	4
13	20/01/2021	3	6	29/01/2021	64	2	0	-	4	4
14	21/01/2021	5	6	29/01/2021	64	0	-	-	8	7
15	21/01/2021	5	6	01/02/2021	64	0	-	-	6	6
16	22/01/2021	4	5	01/02/2021	52	5	0	-	4	3
17	25/01/2021	4	6	03/02/2021	64	0	-	-	8	7
18	25/01/2021	4	6	03/02/2021	64	0	-	-	8	8
19	25/01/2021	4	6	04/02/2021	64	0	-	-	6	5
20	25/01/2021	4	6	03/02/2021	64	0	-	-	8	8
21	25/01/2021	4	6	04/02/2021	64	2	0	-	8	8
22	26/01/2021	5	6	04/02/2021	64	1	0	-	6	6
23	26/01/2021	5	6	04/02/2021	64	0	-	-	6	5
24	27/01/2021	4	7	05/02/2021	80	2	0	-	8	7
25	28/01/2021	4	4	09/02/2021	40	1	0	-	8	8
26	28/01/2021	3	4	09/02/2021	40	0	-	-	8	8
27	01/02/2021	2	5	10/02/2021	40	2	0	-	7	5
27		112	133		1315	28	2	0	150	142

% MI 97.87
 Corrected MI 97.75

Generation: F2

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
2.1	10/02/21	10	10	18/02/21	32	0	-	-	8	8
2.2	12/02/21	10	11	22/02/21	34	1	0	-	8	5
2.3	15/02/21	11	11	24/02/21	39	1	1	0	8	6
3		31	32		105	2	1	0	24	19

% MI 98.10
 Corrected MI 97.59

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Zone: 2
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-8

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
2	18/12/2020	2	5	29/12/2020	28	0	-	-	5	5
3	28/12/2020	4	4	07/01/2021	26	0	-	-	4	3
4	04/01/2021	7	6	14/01/2021	41	2	0	-	4	4
5	05/01/2021	7	3	15/01/2021	20	0	-	-	4	4
6	11/01/2021	6	3	20/01/2021	20	0	-	-	4	3
7	11/01/2021	6	4	20/01/2021	28	0	-	-	4	4
8	13/01/2021	6	2	22/01/2021	16	1	0	-	4	4
10	18/01/2021	7	3	27/01/2021	24	0	-	-	4	4
11	21/01/2021	8	3	01/02/2021	24	0	-	-	4	4
12	25/01/2021	4	6	03/02/2021	48	0	-	-	4	4
13	25/01/2021	4	6	03/02/2021	48	0	-	-	4	4
14	26/01/2021	6	7	04/02/2021	56	0	-	-	6	6
15	22/01/2021	4	6	09/02/2021	56	0	-	-	8	4
16	01/02/2021	5	6	10/02/2021	56	0	-	-	8	6
17	02/02/2021	6	6	11/02/2021	56	0	-	-	8	7
18	04/02/2021	5	7	16/02/2021	56	0	-	-	8	8
19	08/02/2021	4	6	17/02/2021	52	0	-	-	8	8
20	08/02/2021	4	6	17/02/2021	52	0	-	-	8	8
21	08/02/2021	4	6	17/02/2021	52	1	0	-	8	8
22	08/02/2021	4	6	18/02/2021	52	0	-	-	8	8
23	08/02/2021	3	6	17/02/2021	52	0	-	-	8	7
24	09/02/2021	3	6	18/02/2021	52	0	-	-	8	7
25	09/02/2021	3	6	19/02/2021	52	2	0	-	6	4
26	09/02/2021	3	6	18/02/2021	52	4	0	-	8	8
27	10/02/2021	3	6	19/02/2021	52	0	-	-	6	5
29	12/02/2021	3	6	22/02/2021	56	0	-	-	8	8
30	15/02/2021	5	5	24/02/2021	44	0	-	-	4	3
27		126	142		1171	10	0	0	163	148

% MI 99.15
Corrected MI 99.06

The egg masses of oviposition cages 1, 9 and 28 were infertile.

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Zone: 3
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-8

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	28/12/2020	2	3	09/01/2021	20	0	-	-	4	4
2	04/01/2021	2	6	14/01/2021	30	2	0	-	6	6
3	05/01/2021	2	5	14/01/2021	28	2	0	-	6	6
4	07/01/2021	7	7	18/01/2021	44	0	-	-	8	7
5	11/01/2021	7	6	22/01/2021	39	0	-	-	8	8
6	15/01/2021	7	2	25/01/2021	13	0	-	-	3	3
7	18/01/2021	7	3	27/01/2021	24	0	-	-	4	4
8	21/01/2021	5	3	29/01/2021	24	0	-	-	4	4
9	22/01/2021	5	3	01/02/2021	23	2	0	-	4	4
10	25/01/2021	7	7	04/02/2021	56	0	-	-	12	12
11	25/01/2021	6	6	04/02/2021	56	2	0	-	12	12
12	27/01/2021	7	3	05/02/2021	31	0	-	-	8	8
13	01/02/2021	7	6	11/02/2021	56	0	-	-	8	7
14	04/02/2021	6	6	12/02/2021	56	0	-	-	8	8
15	05/02/2021	5	5	16/02/2021	44	0	-	-	4	4
16	08/02/2021	4	6	16/02/2021	52	0	-	-	4	4
17	08/02/2021	4	6	17/02/2021	52	0	-	-	6	6
18	08/02/2021	4	6	18/02/2021	52	0	-	-	6	5
20	08/02/2021	4	6	16/02/2021	52	0	-	-	4	4
21	08/02/2021	4	6	17/02/2021	52	0	-	-	7	7
22	09/02/2021	5	6	17/02/2021	52	0	-	-	7	6
23	09/02/2021	5	6	18/02/2021	52	3	0	-	6	6
24	10/02/2021	5	6	19/02/2021	52	3	0	-	8	7
25	11/02/2021	5	5	22/02/2021	56	1	0	-	8	7
26	11/02/2021	4	5	22/02/2021	44	0	-	-	8	7
27	12/02/2021	4	6	24/02/2021	56	3	0	-	8	7
28	15/02/2021	2	6	24/02/2021	56	3	0	-	7	7
27		132	142		1172	21	0	0	178	170

% MI 98.21
 Corrected MI 98.12

The egg masses of oviposition cage 19 were infertile.

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Laboratory strain

DC Bioassay:	1091 ng/cm ²
Tox:	B2-8

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves			Control larvae	
		♂	♀		N	≥ L2	L3	L4	L5	N	≥ L2
1	08/07/21	5	10	16/07/21	29	0	-	-	-	3	3
2	08/07/21	5	10	16/07/21	29	0	-	-	-	3	3
3	08/07/21	5	10	16/07/21	29	3	0	-	-	3	3
4	08/07/21	5	10	16/07/21	29	1	0	-	-	3	3
5	08/07/21	5	10	16/07/21	29	0	-	-	-	3	2
6	08/07/21	5	10	16/07/21	29	0	-	-	-	3	3
7	09/07/21	6	10	20/07/21	32	0	-	-	-	4	4
8	09/07/21	6	10	20/07/21	32	0	-	-	-	4	3
9	09/07/21	6	10	20/07/21	32	0	-	-	-	4	4
10	09/07/21	6	10	20/07/21	32	0	-	-	-	4	4
11	09/07/21	6	10	20/07/21	32	0	-	-	-	4	3
12	09/07/21	5	10	20/07/21	32	0	-	-	-	4	4
13	09/07/21	5	10	20/07/21	32	0	-	-	-	4	4
14	09/07/21	5	10	20/07/21	32	0	-	-	-	4	4
15	09/07/21	5	10	20/07/21	32	0	-	-	-	4	2
16	09/07/21	6	10	20/07/21	32	0	-	-	-	4	4
17	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
18	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
19	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
20	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
21	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
22	12/07/21	9	10	21/07/21	32	0	-	-	-	4	4
23	12/07/21	9	10	21/07/21	32	0	-	-	-	4	3
24	12/07/21	9	10	21/07/21	32	3	0	-	-	4	4
25	12/07/21	9	10	21/07/21	32	1	0	-	-	4	4
26	12/07/21	9	10	21/07/21	32	3	0	-	-	4	4
27	12/07/21	9	10	21/07/21	32	2	0	-	-	4	4
28	13/07/21	10	10	22/07/21	28	0	-	-	-	4	2
29	13/07/21	10	10	22/07/21	28	0	-	-	-	4	3
30	13/07/21	10	10	22/07/21	28	0	-	-	-	4	4
31	13/07/21	10	10	22/07/21	28	0	-	-	-	4	3
32	14/07/21	10	9	23/07/21	28	0	-	-	-	4	4
33	16/07/21	8	10	27/07/21	28	0	-	-	-	4	2
35	19/07/21	4	10	30/07/21	60	0	-	-	-	4	4
34	-	247	339		1074	13	0	0		130	118

% MI

98.79

9.23

Corrected MI

98.67

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Zone: 1
 Generation: F1

MON 810 maize	DKC6351YG
Conventional maize	P0023

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors ≥ L2	Number of larvae on conventional maize	Survivors ≥ L2
1	18/12/2021	600	0	10	10
2	23/12/2021	600	0	10	10
3	29/12/2021	600	0	10	10
4	30/12/2021	600	0	10	10
5	07/01/2021	200	0	10	10
6	14/01/2021	200	0	10	10
7	18/01/2021	200	0	10	10
8	20/01/2021	200	0	10	10
9	22/01/2021	100	0	10	10
10	29/01/2021	60	0	10	10
11	27/01/2021	200	0	10	10
12	29/01/2021	30	0	10	10
13	29/01/2021	200	0	10	10
14	01/02/2021	200	0	10	10
15	01/02/2021	200	0	10	10
16	02/02/2021	200	0	10	10
17	03/02/2021	200	0	10	10
18	03/02/2021	200	0	10	10
19	05/02/2021	200	0	10	10
20	03/02/2021	200	0	10	10
21	04/02/2021	50	0	10	10
22	04/02/2021	200	0	10	10
23	04/02/2021	200	0	10	9
24	05/02/2021	200	0	10	10
25	09/02/2021	150	0	10	10
26	09/02/2021	200	0	10	10
27	10/02/2021	200	0	10	10
27		6390	0	260	259

moulting % ≥ L2 0.00 99.62

Control larvae from oviposition 6 died because the maize leaves dried up

Generation: F2*

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors ≥ L2	Number of larvae on conventional maize	Survivors ≥ L2
2.1	18/02/2021	200	0	10	9
2.2	22/02/2021	200	0	10	10
2.3	24/02/2021	200	0	10	10
3		600	0	30	29

moulting % ≥ L2 0.00 96.67

* Bioassay conducted due to the presence of L2 larvae at the end of the DC bioassay which, after feeding on MON810 maize leaves for 10 days, survived and were able to moult to the third larval instar.

Zone: 2
 Generation: F1

MON 810 maize	DKC6351YG
Conventional maize	P0023

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors \geq L2	Number of larvae on conventional maize	Survivors \geq L2
2	30/12/2020	430	0	10	10
3	07/01/2021	200	0	10	10
4	14/01/2021	200	0	10	8
5	15/01/2021	200	0	10	10
6	20/01/2021	200	0	10	10
7	20/01/2021	200	0	10	10
8	22/01/2021	80	0	10	8
10	27/01/2021	200	0	10	9
11	01/02/2021	200	0	10	10
12	03/02/2021	200	0	10	10
13	03/02/2021	200	0	10	10
14	04/02/2021	200	0	10	9
15	09/02/2021	200	0	10	10
16	12/02/2021	200	0	10	10
17	11/02/2021	200	0	10	10
18	16/02/2021	200	0	10	10
19	17/02/2021	200	0	10	10
20	17/02/2021	200	0	10	10
21	17/02/2021	200	0	10	10
22	19/02/2021	180	0	10	9
23	17/02/2021	200	0	10	10
24	19/02/2021	70	0	10	3
25	19/02/2021	70	0	10	10
26	18/02/2021	100	0	10	10
27	19/02/2021	200	0	10	8
29	22/02/2021	200	0	10	10
30	24/02/2021	200	0	10	10
27		5130	0	270	254
moulting % \geq L2			0.00		94.07

The egg masses of oviposition cages 1, 9 and 28 were infertile.

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Zone: 3
 Generation: F1

MON 810 maize	DKC6351YG
Conventional maize	P0023

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors ≥ L2	Number of larvae on conventional maize	Survivors ≥ L2
1	09/01/2021	130	0	10	10
2	14/01/2021	200	0	10	10
3	14/01/2021	200	0	10	8
4	18/01/2021	200	0	10	10
5	22/01/2021	200	0	10	10
6	25/01/2021	200	0	10	10
7	27/01/2021	200	0	10	10
8	01/02/2021	200	0	10	10
9	02/02/2021	200	0	10	10
10	04/02/2021	200	0	10	10
11	04/02/2021	200	0	10	10
12	05/02/2021	100	0	10	10
13	12/02/2021	200	0	10	10
14	13/02/2021	200	0	10	10
15	16/02/2021	200	0	10	10
16	17/02/2021	200	0	10	10
17	17/02/2021	100	0	10	10
18	18/02/2021	200	0	10	8
20	17/02/2021	100	0	10	10
21	17/02/2021	100	0	10	10
22	17/02/2021	100	0	10	10
23	18/02/2021	200	0	10	10
24	19/02/2021	200	0	10	10
25	22/02/2021	200	0	10	10
26	22/02/2021	200	0	10	10
27	24/02/2021	200	0	10	9
28	24/02/2021	200	0	10	10
27		4830	0	270	265
moulting % ≥ L2			0.00		98.15

The egg masses of oviposition cage 19 were infertile.

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Laboratory strain

MON810 maize	DKC6351YG
Conventional maize	P0023

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors ≥ L2	Number of larvae on conventional maize	Survivors ≥ L2
1	16/07/2021	200	0	10	10
2	16/07/2021	200	0	10	10
3	16/07/2021	200	0	10	10
4	16/07/2021	200	0	10	10
5	16/07/2021	200	0	10	10
6	16/07/2021	200	0	10	10
7	20/07/2021	200	0	10	10
8	20/07/2021	200	0	10	10
9	20/07/2021	200	0	10	10
10	20/07/2021	200	0	10	10
11	21/07/2021	200	0	10	10
12	20/07/2021	200	0	10	10
13	20/07/2021	200	0	10	8
14	20/07/2021	200	0	10	9
15	20/07/2021	200	0	10	9
16	20/07/2021	200	0	10	10
17	21/07/2021	200	0	10	10
18	21/07/2021	200	0	10	8
19	22/07/2021	200	0	10	10
20	21/07/2021	200	0	10	10
21	22/07/2021	100	0	10	10
22	21/07/2021	200	0	10	9
23	21/07/2021	200	0	10	10
24	21/07/2021	100	0	10	10
25	21/07/2021	200	0	10	10
26	21/07/2021	200	0	10	10
27	21/07/2021	200	0	10	10
28	22/07/2021	200	0	10	10
29	22/07/2021	200	0	10	10
30	22/07/2021	200	0	10	8
31	22/07/2021	150	0	10	8
32	23/07/2021	200	0	10	10
33	28/07/2021	200	0	10	8
35	30/07/2021	150	0	10	10
31		6500	0	340	327

molting % ≥ L2

0.00

96.18

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RAW DATA (SEASON 2020)

LARVAL MORTALITY AND MOULTING INHIBITION OF LABORATORY POPULATIONS IN DOSE-RESPONSE BIOASSAYS

Table 1. *S. nonagrioides* LABORATORY STRAIN. Susceptibility to Cry1Ab using the toxin batch B2.

Concentration (ng Cry1Ab/cm ²)	Replicate 1			Replicate 2			Replicate 3		
	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2
0	64	1	2	64	1	2	64	2	2
2	32	0	0	32	4	4	28	0	0
4	32	2	2	32	7	10	32	7	11
8	32	4	6	32	10	19	32	8	10
16	32	9	16	23	21	26	32	17	22
32	32	21	25	32	24	26	32	14	19
64	32	23	27	32	26	29	32	18	26
128	32	23	27	32	25	30	32	22	28

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Table 2. *O. nubilalis* LABORATORY STRAIN. Susceptibility to Cry1Ab using the toxin batch B2

Concentration (ng Cry1Ab/cm ²)	Replicate 1			Replicate 2			Replicate 3		
	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2
0	64	2	4	64	1	1	64	1	1
1	32	2	6	32	4	23	32	6	20
2	32	8	14	32	7	27	32	10	21
4	32	7	27	32	10	32	32	14	25
8	32	14	32	32	10	31	32	18	30
16	32	26	32	32	20	32	32	25	32
32	32	32	32	32	32	32	32	32	32
64	32	32	32	32	32	32	32	32	32

Concentration (ng Cry1Ab/cm ²)	Replicate 4		
	No of tested larvae	No of dead larvae	No of larvae that did not moult to L2
0	32	0	0
0.25	32	1	1
0.5	32	2	2
1	32	4	9
2	32	9	22
4	32	11	29
8	32	13	31
16	32	17	31

RESTRICTED USE ONLY FOR QUALITY CHECK OF THE STUDY