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Zone: 1
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-9

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	30/11/2021	4	6	09/12/2021	40	0	-	-	8	8
2	03/12/2021	6	5	16/12/2021	40	0	-	-	8	6
3	09/12/2021	2	2	21/12/2021	14	0	-	-	2	1
4	13/12/2021	3	2	22/12/2021	11	0	-	-	2	2
6	03/01/2022	1	1	12/01/2022	6	0	-	-	2	2
7	11/01/2022	4	6	24/01/2022	36	0	-	-	4	4
8	17/01/2022	6	5	26/01/2022	32	3	0	-	4	4
9	24/01/2022	6	6	02/02/2022	40	0	-	-	4	3
10	24/01/2022	6	6	02/02/2022	40	0	-	-	4	4
11	25/01/2022	5	5	03/02/2022	32	0	-	-	8	6
12	25/01/2022	5	5	03/02/2022	31	0	-	-	8	7
13	26/01/2022	6	6	04/02/2022	36	0	-	-	4	4
14	26/01/2022	6	6	04/02/2022	36	0	-	-	4	4
15	27/01/2022	7	7	04/02/2022	44	0	-	-	4	4
16	27/01/2022	7	7	07/02/2022	40	0	-	-	6	6
17	28/01/2022	7	6	07/02/2022	36	0	-	-	5	5
18	28/01/2022	6	6	07/02/2022	36	0	-	-	5	5
19	31/01/2022	4	6	09/02/2022	36	0	-	-	4	4
20	31/01/2022	4	6	08/02/2022	36	0	-	-	6	6
21	31/01/2022	4	6	11/02/2022	36	0	-	-	8	8
22	31/01/2022	4	6	08/02/2022	36	0	-	-	7	6
24	31/01/2022	3	6	08/02/2022	36	0	-	-	7	7
25	31/01/2022	3	6	10/02/2022	40	0	-	-	6	6
26	31/01/2022	5	6	09/02/2022	36	0	-	-	4	4
27	01/02/2022	5	6	14/02/2022	36	1	0	-	4	4
28	01/02/2022	6	7	10/02/2022	44	0	-	-	6	6
29	01/02/2022	6	7	14/02/2022	40	0	-	-	8	8
30	02/02/2022	6	6	11/02/2022	36	0	-	-	8	8
31	02/02/2022	6	6	11/02/2022	36	0	-	-	8	8
32	02/02/2022	6	6	11/02/2022	72	0	-	-	16	14
33	03/02/2022	7	6	14/02/2022	36	0	-	-	8	8
34	04/02/2022	7	5	14/02/2022	36	0	-	-	8	8
35	07/02/2022	8	5	14/02/2022	36	0	-	-	8	8
		171	183		1178	4	0	0	198	188
					99,66					5,05
					99,64					

The egg masses of oviposition cages 5 and 23 were infertile.

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Zone: 2
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-9

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
2	27/12/2021	6	6	07/01/2022	42	0	-	-	6	6
5	07/01/2022	5	5	18/01/2022	40	0	-	-	8	8
6	10/01/2022	5	6	20/01/2022	36	0	-	-	4	4
7	10/01/2022	6	6	21/01/2022	36	0	-	-	4	4
8	12/01/2022	4	7	21/01/2022	44	3	1	0	4	4
9	14/01/2022	4	7	24/01/2022	44	0	-	-	4	1
10	14/01/2022	4	6	24/01/2022	36	0	-	-	4	1
11	17/01/2022	7	6	26/01/2022	36	0	-	-	4	4
12	17/01/2022	7	6	26/01/2022	36	0	-	-	4	3
13	17/01/2022	6	6	26/01/2022	36	0	-	-	4	4
14	17/01/2022	6	6	27/01/2022	36	0	-	-	4	4
15	17/01/2022	6	6	26/01/2022	36	0	-	-	4	3
16	17/01/2022	6	6	26/01/2022	36	0	-	-	4	3
17	17/01/2022	6	6	26/01/2022	36	0	-	-	4	2
18	17/01/2022	6	6	26/01/2022	36	0	-	-	4	4
19	18/01/2022	5	6	27/01/2022	36	0	-	-	4	4
20	18/01/2022	5	5	27/01/2022	36	0	-	-	4	4
21	18/01/2022	5	5	27/01/2022	36	0	-	-	4	3
22	19/01/2022	6	6	28/01/2022	36	4	0	-	6	6
23	19/01/2022	6	6	28/01/2022	36	1	0	-	6	4
24	20/01/2022	4	7	31/01/2022	43	2	0	-	3	3
25	20/01/2022	4	7	31/01/2022	44	0	-	-	3	2
26	20/01/2022	4	7	31/01/2022	44	0	-	-	3	3
27	20/01/2022	4	6	31/01/2022	36	0	-	-	3	2
28	21/01/2022	5	7	31/01/2022	44	0	-	-	3	3
29	24/01/2022	4	6	02/02/2021	32	0	-	-	4	4
30	24/01/2022	4	6	02/02/2021	44	0	-	-	4	4
31	24/01/2022	4	6	07/02/2022	12	0	-	-	4	3
32	24/01/2022	4	7	02/02/2021	52	1	0	-	4	4
33	26/01/2022	7	7	04/02/2022	44	0	-	-	4	4
30		155	185		1141	11	1	0	125	108

% MI

99,04

13,60

Corrected MI

98,88

The egg masses of oviposition cages 1, 3 and 4 were infertile.

Generation: F2

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
8-1	14/03/2022	5	9	23/03/2022	28	0	0	0	4	4
8-2	14/03/2022	5	8	22/03/2022	28	1	0	0	4	3
8-3	14/03/2022	5	8	23/03/2022	28	0	0	0	4	4
8-4	15/03/2022	5	10	24/03/2022	28	0	0	0	4	4
8-5	16/03/2022	4	10	24/03/2022	28	0	0	0	4	4
8-6	17/03/2022	5	11	24/03/2022	28	0	0	0	4	4
6		29	56		168	1	0	0	24	23

% MI

99,40

4,17

Corrected MI

99,38

Zone: 3
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-9

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	10/11/2021	3	4	22/11/2021	28	1	0	-	4	4
2	12/11/2021	3	2	23/11/2021	14	0	-	-	2	2
3	15/11/2021	2	2	25/11/2021	14	0	-	-	2	2
4	29/12/2021	2	7	10/01/2022	42	3	0	-	6	6
5	03/01/2022	6	6	12/01/2022	40	0	-	-	4	4
6	03/01/2022	6	6	13/01/2022	36	1	0	-	8	8
7	03/01/2022	6	6	12/01/2022	40	0	-	-	4	4
8	04/01/2022	6	5	13/01/2022	28	3	0	-	8	8
9	07/01/2022	7	4	18/01/2022	26	3	0	-	4	4
10	07/01/2022	7	4	19/01/2022	28	15	0	-	4	4
11	07/01/2022	7	4	18/01/2022	26	6	0	-	4	4
12	10/01/2022	7	6	20/01/2022	36	1	0	-	4	4
13	10/01/2022	7	6	20/01/2022	36	0	-	-	4	4
14	11/01/2022	6	6	20/01/2022	36	3	0	-	4	4
15	12/01/2022	6	6	21/01/2022	36	0	-	-	4	4
16	13/01/2022	5	5	25/01/2022	30	0	-	-	2	0
18	13/01/2022	5	5	24/01/2022	36	0	-	-	4	4
19	14/01/2022	6	7	24/01/2022	36	0	-	-	4	3
20	14/01/2022	6	6	24/01/2022	36	0	-	-	4	0
21	14/01/2022	6	6	24/01/2022	36	0	-	-	4	2
22	17/01/2022	7	7	27/01/2022	44	0	-	-	8	8
23	17/01/2022	7	7	26/01/2022	44	1	0	-	4	2
24	17/01/2022	7	6	26/01/2022	36	0	-	-	4	4
25	17/01/2022	6	6	26/01/2022	36	0	-	-	4	4
26	17/01/2022	6	6	26/01/2022	36	1	0	-	4	3
27	17/01/2022	6	6	26/01/2022	36	0	-	-	4	4
28	18/01/2022	6	6	27/01/2022	36	0	-	-	4	4
29	18/01/2022	6	6	27/01/2022	36	0	-	-	4	4
30	19/01/2022	6	6	28/01/2022	36	1	0	-	8	8
31	19/01/2022	6	6	31/01/2022	36	0	-	-	3	3
32	21/01/2022	7	7	31/01/2022	36	0	-	-	3	3
33	24/01/2022	6	6	02/02/2022	36	0	-	-	4	4
34	24/01/2022	6	6	02/02/2022	36	0	-	-	4	3
35	25/01/2022	3	4	03/02/2022	24	0	-	-	8	8
34		194	188		1148	39	0	0	150	137
% MI					96,60				8,67	
Corrected MI					96,28					

The egg masses of oviposition cage 17 were infertile.

Laboratory strain

DC Bioassay:	1091 ng/cm ²
Tox:	B2-9

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	21/02/2022	10	6	03/03/2022	60	0	-	-	4	2
2	24/02/2022	5	8	07/03/2022	44	0	-	-	4	2
3	24/02/2022	5	8	07/03/2022	44	0	-	-	4	4
4	28/02/2022	10	10	09/03/2022	44	0	-	-	4	4
5	01/03/2022	10	10	10/03/2022	44	2	0	-	4	4
6	02/03/2022	10	9	11/03/2022	44	1	0	-	4	4
7	02/03/2022	10	9	10/03/2022	44	0	-	-	4	3
8	03/03/2022	10	9	14/03/2022	44	0	-	-	4	2
9	04/03/2022	10	10	14/03/2022	44	0	-	-	4	4
10	07/03/2022	10	10	16/03/2022	44	0	-	-	4	3
11	07/03/2022	10	8	16/03/2022	44	0	-	-	4	3
12	08/03/2022	10	7	16/03/2022	44	0	-	-	4	4
13	08/03/2022	10	7	16/03/2022	44	0	-	-	4	4
14	09/03/2022	10	10	17/03/2022	44	0	-	-	4	4
15	09/03/2022	8	10	17/03/2022	44	4	0	-	4	4
16	10/03/2022	9	10	18/03/2022	44	0	-	-	4	4
17	11/03/2022	9	10	21/03/2022	44	0	-	-	4	4
18	14/03/2022	9	10	22/03/2022	44	0	-	-	4	4
19	14/03/2022	9	10	23/03/2022	44	0	-	-	4	2
20	14/03/2022	9	10	23/03/2022	44	1	0	-	4	4
21	14/03/2022	9	10	22/03/2022	44	0	-	-	4	3
22	14/03/2022	9	10	22/03/2022	44	0	-	-	4	3
23	14/03/2022	9	10	23/03/2022	44	0	-	-	4	4
24	15/03/2022	9	10	23/03/2022	44	0	-	-	4	4
25	15/03/2022	9	10	23/03/2022	44	0	-	-	4	3
26	17/03/2022	10	10	29/03/2022	36	0	-	-	12	11
26		238	241		1152	8	0	0	112	97

% MI
Corrected MI

99,31
99,20

13,39

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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 \geq L2	Number of larvae on conventional maize	Survivors \geq L2
1	09/12/2021	200	0	10	10
2	14/12/2021	200	0	10	10
3	21/12/2021	200	0	10	10
4	22/12/2021	200	0	10	9
6	12/01/2022	200	0	10	8
7	24/01/2022	200	0	10	10
8	26/01/2022	200	0	10	10
9	02/02/2022	200	0	10	9
10	02/02/2022	200	0	10	10
11	03/02/2022	200	0	10	9
12	03/02/2022	200	0	10	10
13	04/02/2022	200	0	10	10
14	04/02/2022	200	0	10	10
15	04/02/2022	200	0	10	10
16	07/02/2022	200	0	10	10
17	07/02/2022	200	0	10	10
18	07/02/2022	200	0	10	10
19	09/02/2022	200	0	10	10
20	09/02/2022	50	0	10	10
21	11/02/2022	200	0	10	10
22	09/02/2022	200	0	10	10
24	09/02/2022	200	0	10	10
25	10/02/2022	200	0	10	10
26	09/02/2022	200	0	10	10
27	14/02/2022	200	0	10	10
28	10/02/2022	200	0	10	10
29	15/02/2022	200	0	10	10
30	11/02/2022	200	0	10	10
31	11/02/2022	200	0	10	10
32	14/02/2022	200	0	10	10
33	14/02/2022	200	0	10	10
34	14/02/2022	200	0	10	10
35	16/02/2022	200	0	10	10
33		6450	0	330	325
moulting % \geq L2			0,00		98,48

The egg masses of oviposition cages 5 and 23 were infertile.

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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	07/01/2022	200	0	10	10
5	18/01/2022	200	0	10	10
6	20/01/2022	200	0	10	10
7	21/01/2022	200	0	10	9
8	21/01/2022	200	0	10	10
9	24/01/2022	200	0	10	8
10	24/01/2022	200	0	10	10
11	26/01/2022	200	0	10	9
12	26/01/2022	200	0	10	10
13	27/01/2022	200	0	10	10
14	27/01/2022	200	0	10	9
15	26/01/2022	200	0	10	10
16	26/01/2022	200	0	10	9
17	26/01/2022	200	0	10	10
18	26/01/2022	200	0	10	10
19	27/01/2022	200	0	10	10
20	27/01/2022	200	0	10	10
21	27/01/2022	200	0	10	10
22	28/01/2022	200	0	10	10
23	28/01/2022	200	0	10	10
24	31/01/2022	200	0	10	10
25	31/01/2022	200	0	10	10
26	31/01/2022	200	0	10	10
27	01/02/2022	200	0	10	10
28	01/02/2022	200	0	10	10
29	02/02/2022	200	0	10	10
30	02/02/2022	200	0	10	10
31	07/02/2022	50	0	10	10
32	02/02/2022	200	0	10	10
33	04/02/2022	200	0	10	9
30		5850	0	300	293

moulting % \geq L2 0,00 97,67

The egg masses of oviposition cages 1, 3 and 4 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 \geq L2	Number of larvae on conventional maize	Survivors \geq L2
1	22/11/2021	200	0	10	10
2	23/11/2021	200	0	10	10
3	25/11/2021	200	0	10	10
4	10/01/2022	200	0	10	10
5	12/01/2022	200	0	10	10
6	13/01/2022	200	0	10	10
7	12/01/2022	200	0	10	10
8	13/01/2022	200	0	10	9
9	18/01/2022	200	0	10	10
10	19/01/2022	200	0	10	10
11	18/01/2022	200	0	10	10
12	20/01/2022	200	0	10	10
13	20/01/2022	200	0	10	10
14	20/01/2022	200	0	10	10
15	21/01/2022	200	0	10	9
16	25/01/2022	200	0	10	10
18	24/01/2022	200	0	10	10
19	24/01/2022	200	0	10	10
20	24/01/2022	200	0	10	10
21	24/01/2022	200	0	10	10
22	27/01/2022	100	0	10	10
23	26/01/2022	200	0	10	10
24	26/01/2022	150	0	10	10
25	26/01/2022	200	0	10	10
26	26/01/2022	200	0	10	10
27	26/01/2022	200	0	10	10
28	27/01/2022	200	0	10	10
29	27/01/2022	200	0	10	10
30	28/01/2022	200	0	10	10
31	31/01/2022	200	0	10	10
32	31/01/2022	200	0	10	10
33	02/02/2022	200	0	10	9
34	02/02/2022	200	0	10	10
35	03/02/2022	200	0	10	10
34		6650	0	340	337

molting % \geq L2

0,00

99,12

The egg masses of oviposition cage 17 were infertile.

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Laboratory strain

MON810 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
1	03/03/2022	200	0	10	10
2	08/03/2022	200	0	10	10
3	08/03/2022	200	0	10	10
4	09/03/2022	200	0	10	10
5	10/03/2022	200	0	10	10
6	11/03/2022	200	0	10	10
7	11/03/2022	200	0	10	10
8	14/03/2022	200	0	10	10
9	14/03/2022	200	0	10	9
10	16/03/2022	200	0	10	10
11	16/03/2022	200	0	10	9
12	16/03/2022	200	0	10	10
13	16/03/2022	200	0	10	10
14	17/03/2022	200	0	10	10
15	18/03/2022	200	0	10	10
16	18/03/2022	200	0	10	10
17	21/03/2022	200	0	10	10
18	23/03/2022	200	0	10	9
19	23/03/2022	200	0	10	10
20	23/03/2022	200	0	10	10
21	23/03/2022	200	0	10	10
22	23/03/2022	200	0	10	7
23	23/03/2022	200	0	10	10
24	24/03/2022	200	0	10	10
25	24/03/2022	200	0	10	9
26	29/03/2022	200	0	10	10
26		5200	0	260	253

moulting % \geq L2

0,00

97,31

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RAW DATA (SEASON 2021)

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	5	5	64	11	12	64	9	14
4	32	1	1	32	12	15	28	10	11
8	32	4	6	32	12	16	32	11	13
16	32	9	12	32	12	20	32	12	22
32	32	18	18	32	17	20	32	19	21
64	32	18	22	32	20	27	32	18	25
128	32	23	26	32	21	27	32	20	24

RESTRICTED USE. ONLY FOR QUALITY CHECK OF THE STUDY

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	63	0	4	64	0	2	64	1	2
0.5	32	0	0	32	0	0	32	2	3
1	32	1	2	32	3	8	32	7	13
2	32	0	16	32	6	23	32	8	25
4	32	5	30	32	5	28	32	22	30
8	32	18	31	32	17	32	32	27	32
16	32	28	32	32	23	32	32	31	32
32	32	30	32	32	30	32	32	32	32
64	32	31	32	32	32	32	32	32	32

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