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Zone: 1
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-7

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	04/11/2019	2	6	14/11/2019	34	2	0	-	11	11
4	12/12/2019	6	3	23/12/2019	23	0	-	-	12	12
5	16/12/2019	5	2	26/12/2019	12	0	-	-	8	8
6	23/12/2019	6	3	03/01/2020	20	1	0	-	4	4
8	23/12/2019	5	2	02/01/2020	12	0	-	-	4	4
9	26/12/2019	10	6	08/01/2020	39	3	0	-	8	8
10	17/12/2019	10	6	08/01/2020	39	3	0	-	8	8
11	30/12/2019	11	6	09/01/2020	35	1	0	-	9	9
12	30/12/2019	11	6	09/01/2020	36	2	0	-	9	9
13	30/12/2019	10	5	09/01/2020	31	1	0	-	6	6
14	02/01/2020	10	5	13/01/2020	46	0	-	-	10	10
15	02/01/2020	2	5	13/01/2020	45	0	-	-	10	10
16	03/01/2020	4	3	14/01/2020	23	1	0	-	8	8
17	07/01/2020	5	6	17/01/2020	46	0	-	-	8	8
18	07/01/2020	6	6	17/01/2020	47	2	0	-	8	8
19	08/01/2020	7	3	17/01/2020	23	0	-	-	8	8
20	14/01/2020	2	6	24/01/2020	46	0	-	-	16	16
21	27/01/2020	3	6	06/02/2020	36	1	0	-	6	5
22	28/01/2020	3	5	06/02/2020	37	2	1	0	6	5
23	30/01/2020	3	6	10/02/2020	36	0	-	-	4	3
24	30/01/2020	3	6	10/02/2020	36	0	-	-	4	4
25	31/01/2020	3	6	10/02/2020	36	0	-	-	4	4
26	31/01/2020	3	5	10/02/2020	36	0	-	-	4	3
27	03/02/2020	3	6	12/02/2020	32	0	-	-	4	4
28	03/02/2020	3	6	11/02/2020	32	0	-	-	4	4
29	03/02/2020	3	6	11/02/2020	32	0	-	-	3	3
30	03/02/2020	3	6	11/02/2020	32	0	-	-	3	3
31	03/02/2020	2	6	11/02/2020	32	0	-	-	3	3
32	03/02/2020	3	6	12/02/2020	32	0	-	-	4	4
33	03/02/2020	3	6	11/02/2020	32	0	-	-	3	3
34	04/02/2020	3	6	13/02/2020	32	0	-	-	4	4
35	04/02/2020	3	6	13/02/2020	32	0	-	-	4	3
36	04/02/2020	2	6	13/02/2020	32	1	0	-	4	4
38	05/02/2020	2	6	14/02/2020	25	0	-	-	4	2
39	05/02/2020	4	9	17/02/2020	48	0	-	-	2	2
35		164	188		1162	20	1	0	217	208

% MI
 Corrected MI

98,28
 98,20

Generation: F2

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
22.1	23/03/20	10	13							
22.2	25/03/20	11	14							
0		0	0		0	0	0	0	0	0

% MI
 Corrected MI

Due to the COVID19 pandemic (Annex IV) the DC bioassays with the oviposition cages 22 (1-2) could not be performed

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Zone: 2
 Generation: F1

DC Bioassay: 1091 ng/cm²
 Tox: B2-7

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	22/11/2019	1	2	02/12/2019	14	0	-	-	16	16
2	10/12/2019	5	4	20/12/2019	32	0	-	-	16	16
3	12/12/2019	3	1	23/12/2019	8	0	-	-	4	4
4	16/12/2019	1	1	26/12/2019	8	0	-	-	4	4
7	26/12/2019	10	6	08/01/2020	38	5	1	0	8	8
8	27/12/2019	10	6	08/01/2020	38	5	1	0	8	5
9	30/12/2019	10	6	09/01/2020	36	0	-	-	7	7
10	30/12/2019	8	7	09/01/2020	32	0	-	-	5	2
11	07/01/2020	7	3	17/01/2020	28	5	0	-	4	3
12	10/01/2020	5	2	20/01/2020	20	0	-	-	4	4
13	14/01/2020	7	1	24/01/2020	12	0	-	-	4	4
14	20/01/2020	7	6	31/01/2020	53	1	0	-	8	8
15	27/01/2020	2	6	06/02/2020	44	2	0	-	8	8
16	28/01/2020	2	6	06/02/2020	36	5	1	0	7	6
17	29/01/2020	3	5	07/02/2020	39	0	-	-	8	8
18	30/01/2020	3	6	10/02/2020	48	0	-	-	6	6
19	30/01/2020	4	5	10/02/2020	39	3	0	-	5	4
20	31/01/2020	5	5	10/02/2020	40	0	-	-	5	5
21	03/02/2020	3	4	12/02/2020	40	0	-	-	4	4
22	03/02/2020	3	5	12/02/2020	46	0	-	-	4	4
23	03/02/2020	3	6	12/02/2020	60	0	-	-	5	5
24	03/02/2020	3	6	11/02/2020	44	0	-	-	4	4
25	03/02/2020	3	6	11/02/2020	44	0	-	-	4	4
26	03/02/2020	3	6	12/02/2020	56	0	-	-	5	1
27	03/02/2020	3	6	11/02/2020	44	1	1	0	4	4
28	03/02/2020	3	5	12/02/2020	44	0	-	-	4	3
29	04/02/2020	4	6	13/02/2020	32	0	-	-	4	4
30	04/02/2020	4	6	12/02/2020	48	0	-	-	5	4
31	04/02/2020	4	6	12/02/2020	48	0	-	-	5	5
32	05/02/2020	4	6	14/02/2020	32	0	-	-	6	1
33	05/02/2020	4	6	14/02/2020	32	0	-	-	6	4
34	06/02/2020	3	7	17/02/2020	28	1	0	-	2	2
35	10/02/2020	3	7	19/02/2020	30	1	1	0	2	2
33		143	166		1195	29	5	0	191	169
% MI					97,57				11,52	
Corrected MI					97,26					

Generation: F2

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
7.1	21/02/20	5	7	02/03/20	32	1	0	-	8	4
7.2	24/02/20	9	12	04/03/20	32	0	-	-	10	9
7.3	24/02/20	9	12	05/03/20	32	0	-	-	8	8
8.1	25/02/20	3	4							
8.2	29/02/20	3	3							
16.1	23/03/20	10	10							
16.2	23/03/20	10	10							
24.1	30/03/20	2	4							
24.2	06/04/20	2	4							
27.1	23/03/20	20	17							
27.1	25/03/20	20	17							
35.1	30/03/20	12	12							
35.2	02/04/20	12	12							
3		23	31		96	1	0	0	26	21
% MI					98,96				19,23	
Corrected MI					98,71					

Due to the COVID19 pandemic (Annex IV) the DC bioassays with the oviposition cages 16 (1-2), 27 (1-2) and 35 (1-2) could not be performed.

The egg masses of oviposition cages 8 (1-2) and 24 (1-2) were infertile.

Zone: 3
 Generation: F1

DC Bioassay:	1091 ng/cm ²
Tox:	B2-7

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	25/11/2019	2	1	05/12/2019	16	0	-	-	16	16
2	02/12/2019	2	1	12/12/2019	8	0	-	-	8	8
3	20/12/2019	0	1	30/12/2019	12	0	-	-	4	3
4	26/12/2019	9	6	08/01/2020	56	7	1	0	8	8
5	30/12/2019	6	7	09/01/2020	64	1	0	-	8	8
6	30/12/2019	6	7	09/01/2020	64	0	-	-	8	8
7	02/01/2020	6	2	13/01/2020	23	0	-	-	8	7
8	07/01/2020	4	7	17/01/2020	63	0	-	-	15	15
9	10/01/2020	5	5	20/01/2020	60	3	1	0	12	12
10	13/01/2020	6	2	13/01/2020	24	0	-	-	8	8
11	22/01/2020	2	2	03/02/2020	24	0	-	-	8	8
12	31/01/2020	1	6	10/02/2020	63	2	0	-	16	15
13	03/02/2020	3	6	14/02/2020	60	1	-	-	4	3
15	03/02/2020	3	6	12/02/2020	60	0	-	-	4	4
16	03/02/2020	2	6	12/02/2020	60	0	-	-	4	4
17	03/02/2020	3	6	12/02/2020	60	0	-	-	4	4
18	04/02/2020	2	6	13/02/2020	60	1	0	-	4	3
19	04/02/2020	3	6	12/02/2020	58	0	-	-	4	4
20	05/02/2020	3	6	17/02/2020	60	0	-	-	4	4
21	05/02/2020	3	6	18/02/2020	60	1	0	-	4	3
22	05/02/2020	3	6	14/02/2020	60	0	-	-	4	4
23	06/02/2020	3	7	17/02/2020	60	1	0	-	4	4
24	10/02/2020	3	6	19/02/2020	60	0	-	-	4	4
25	12/02/2020	6	7	21/02/2020	59	1	0	-	4	4
24		86	121		1194	18	2	0	167	161

% MI 98,49
 Corrected MI 98,44

Generation: F2

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
4.1	24/02/20	10	10	04/03/20	32	0	-	-	11	8
4.2	24/02/20	10	7	04/03/20	32	0	-	-	11	10
4.3	25/02/20	10	12	05/03/20	32	0	-	-	8	7
9.1	03/03/20	10	10	12/03/20	32	1	0	-	16	14
9.2	05/03/20	10	10	13/03/20	32	0	-	-	16	13
9.3	06/03/20	11	11	16/03/20	31	0	-	-	16	16
6		61	60		191	1	0	0	78	68

% MI 99,48
 Corrected MI 99,40

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Laboratory strain

DC Bioassay:	1091 ng/cm ²
Tox:	B2-7

Oviposition cage	Date	Adults		Bioassay date	Bioassay larvae		L2 fed on Bt maize leaves		Control larvae	
		♂	♀		N	≥ L2	L3	L4	N	≥ L2
1	03/06/20	6	11	19/06/20	56	0	-	-	8	6
2	10/06/20	6	10	19/06/20	44	1	0	-	4	4
3	12/06/20	8	10	22/06/20	44	2	0	-	4	4
5	12/06/20	8	11	22/06/20	55	2	0	-	8	7
8	17/06/20	10	10	26/06/20	40	0	-	-	6	3
9	17/06/20	10	10	26/06/20	40	3	0	-	5	4
10	17/06/20	10	10	26/06/20	40	2	0	-	5	6
11	17/06/20	10	10	26/06/20	40	2	0	-	5	2
12	17/06/20	10	10	26/06/20	40	0	-	-	4	3
14	22/06/20	9	10	01/07/20	40	1	0	-	6	6
15	22/06/20	8	10	01/07/20	40	0	-	-	6	5
16	22/06/20	8	10	02/07/20	56	0	-	-	8	8
17	22/06/20	8	10	01/07/20	48	1	0	-	6	6
18	23/06/20	10	11	02/07/20	96	4	0	-	32	32
14	-	121	143		679	18	0	0	108	96

% MI
Corrected MI

97,35
97,02

11,11

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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	14/11/2019	200	0	10	9
4	23/12/2019	200	0	9	9
5	26/12/2019	200	0	10	10
6	03/01/2020	200	0	10	10
7	03/01/2020	200	0	10	10
8	02/01/2020	200	0	10	9
9	08/01/2020	200	0	10	10
10	08/01/2020	200	0	10	10
11	09/01/2020	200	0	10	10
12	09/01/2020	200	0	10	10
13	09/01/2020	200	0	10	10
14	13/01/2020	200	0	10	10
15	13/01/2020	200	0	11	11
16	14/01/2020	200	0	10	10
17	17/01/2020	200	0	10	10
18	17/01/2020	200	0	10	10
19	17/01/2020	200	0	10	8
20	24/01/2020	200	0	10	10
21	06/02/2020	200	0	10	10
22	06/02/2020	200	0	10	10
23	10/02/2020	200	0	10	10
24	10/02/2020	200	0	11	11
25	10/02/2020	200	0	10	10
26	10/02/2020	200	0	1	1
27	12/02/2020	200	0	10	10
28	12/02/2020	200	0	10	10
29	12/02/2020	200	0	10	10
30	12/02/2020	200	0	10	10
31	12/02/2020	200	0	10	10
32	12/02/2020	200	0	10	10
33	12/02/2020	200	0	10	10
34	13/02/2020	200	0	10	10
35	13/02/2020	50	0	10	10
36	13/02/2020	200	0	10	10
39	17/02/2020	200	0	10	10
35		6850	0	342	338

moulting % ≥ L2

0,00

98,83

Generation: F2

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors ≥ L2	Number of larvae on conventional maize	Survivors ≥ L2
22.1	02/04/2020	200	0	10	10
22.2	02/04/2020	200	0	10	10
0		400	0	20	20

moulting % ≥ L2

0,00

100,00

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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
1	02/12/2019	150	0	10	10
2	20/12/2019	200	0	9	9
3	23/12/2019	150	0	12	12
4	27/12/2019	150	0	10	10
7	08/01/2020	200	0	12	10
8	08/01/2020	200	0	10	10
9	09/01/2020	200	0	10	10
10	09/01/2020	200	0	10	10
11	17/01/2020	200	0	10	10
12	20/01/2020	200	0	10	8
13	24/01/2020	200	0	10	10
14	31/01/2020	200	0	10	10
15	06/02/2020	200	0	10	10
16	06/02/2020	200	0	10	10
17	07/02/2020	200	0	10	10
18	10/02/2020	200	0	10	10
19	10/02/2020	200	0	10	10
20	10/02/2020	200	0	10	10
21	12/02/2020	200	0	10	10
22	12/02/2020	150	0	10	10
23	12/02/2020	200	0	10	10
24	12/02/2020	200	1	10	9
25	12/02/2020	200	0	10	10
26	12/02/2020	200	0	10	10
27	12/02/2020	200	0	10	10
28	12/02/2020	200	0	10	9
29	13/02/2020	200	0	10	10
30	13/02/2020	200	0	10	10
31	13/02/2020	200	0	10	10
32	14/02/2020	200	0	10	9
33	14/02/2020	200	0	10	10
34	17/02/2020	200	0	10	10
35	19/02/2020	200	0	10	10
33		6400	1	333	326

moultin g % \geq L2 0,02 97,90

Generation: F2

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors \geq L2	Number of larvae on conventional maize	Survivors \geq L2
7.1	02/03/2020	80	0	10	7
7.2	04/03/2020	200	0	10	10
7.3	05/03/2020	200	0	10	9
8.1					
8.2					
16.1	02/04/2020	200	0	10	7
16.2	02/04/2020	200	0	10	10
24.1					
24.2					
27.1	02/04/2020	200	0	10	10
27.2	02/04/2020	200	0	10	10
35.1	09/04/2020	200	0	10	8
35.2	13/04/2020	200	0	10	10
9		1680	0	90	81

moultin g % \geq L2 0,00 90,00

The egg masses of oviposition cages 8 (1-2) and 24 (1-2) were infertile

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
2	13/12/2019	50	0	7	7
4	08/01/2020	200	0	10	10
5	09/01/2020	200	0	10	10
6	09/01/2020	200	0	10	10
7	13/01/2020	200	0	10	10
8	17/01/2020	200	0	10	10
9	20/01/2020	200	0	11	11
10	23/01/2020	200	0	10	9
11	03/02/2020	200	0	10	10
12	10/02/2020	200	0	10	10
13	14/02/2020	200	0	10	10
15	12/02/2020	200	0	8	8
16	13/02/2020	200	0	10	10
17	12/02/2020	200	0	10	10
18	13/02/2020	200	0	10	10
19	12/02/2020	200	0	10	10
20	17/02/2020	200	0	10	10
22	14/02/2020	200	0	10	10
23	17/02/2020	200	0	10	10
24	19/02/2020	200	0	10	9
25	21/02/2020	200	0	10	7
21		4050	0	206	201

moulting % \geq L2

0,00

97,57

Control larvae from ovipositions 3 and 21 died because the maize leaves dried up

Generation: F2

Oviposition cage	Date	Number of larvae on MON810 maize	Survivors \geq L2	Number of larvae on conventional maize	Survivors \geq L2
4.1	04/03/2020	200	0	10	10
4.2	04/03/2020	200	0	10	10
4.3	05/03/2020	200	0	10	10
9.1	22/03/2020	200	0	10	10
9.2	16/03/2020	200	0	10	10
9.3	16/03/2020	200	0	10	10
		1200	0	60	60

moulting % \geq L2

0,00

100,00

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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	19/06/2020	200	0	10	7
2	19/06/2020	200	0	10	9
3	22/06/2020	200	0	10	10
5	22/06/2020	200	0	10	10
8	26/06/2020	200	0	10	10
9	26/06/2020	200	0	10	10
10	26/06/2020	200	0	10	10
11	26/06/2020	200	0	10	10
12	26/06/2020	200	0	10	10
14	01/07/2020	200	0	10	10
15	01/07/2020	200	0	10	10
16	02/07/2020	75	0	10	10
17	02/07/2020	200	0	10	8
18	02/07/2020	200	0	10	10
14		2675	0	140	134

moulting % \geq L2

0,00

95,71

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RAW DATA (SEASON 2019)

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 B2-7

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	62	6	12	64	12	4			
2	32	1	8	30	4	8			
4	32	6	14	32	7	11			
8	31	4	13	31	8	10			
16	30	5	15	31	12	16			
32	32	12	18	32	11	19			
64				31	18	24			
128	31	17	27	32	20	29			

Table 2. *O. nubilalis* LABORATORY STRAIN. Susceptibility to Cry1Ab using the toxin batch B2-7

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 L2	No of tested larvae	No of dead larvae	No of larvae that did not moult L2	No of tested larvae	No of dead larvae	No of larvae that did not moult L2
0	61	10	11	64	3	3	64	8	8
1	32	3	6	32	2	2	31	5	5
2	32	5	7	31	2	3	32	4	4
4	32	5	18	30	16	23	32	9	21
8	32	7	22	30	23	25	31	13	25
16	32	15	30	32	26	28	32	15	29
32	32	24	31	32	30	32	32	24	32
64	32	26	32	32	31	32	32	27	32