

Annexes

Table 3 Insecticidal Bt crops approved in the EU

#	Event	Crop	Trait(s)	Insecticidal gene(s) introduced	Approval year	Cultivation
1	MON 87411	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance	Cry3Bb1, Dvsnf7	2019	✗
2	MON 87751	Soybean	Lepidopteran insect resistance	Cry1A.105, Cry2Ab2	2019	✗
3	4114	Maize	Glufosinate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1F, Cry34Ab1, Cry35Ab1	2019	✗
4	1507 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Fa2	2019	✗
5	5307	Maize	Multiple insect resistance (Coleopteran and Lepidopteran), Mannose metabolism	Ecry3.1Ab	2019	✗
6	GHB614 x LLCotton25 x MON 15985	Cotton	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ac, Cry2Ab2	2019	✗
7	NK603 x MON810	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	2018	✗
8	MON 87427 x MON 89034 x 1507 x MON 88017 x 59122	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1Fa2, Cry2Ab2, Cry35Ab1, Cry34Ab1	2018	✗
9	DAS-59122-7	Maize	Glufosinate herbicide tolerance, Coleopteran insect resistance	Cry34Ab1, Cry35Ab1	2018	✗
10	1507 x 59122 x MON 810 x NK603	Maize	Glyphosate herbicide tolerance, Glufosinate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1Fa2, Cry34Ab1, Cry35Ab1, Cry1Ab	2018	✗
11	MON 87427 x MON 89034 x NK603	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry2Ab2, Cry1A.105	2018	✗
12	1507	Maize	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Fa2	2017	✗
13	MON 810	Maize	Lepidopteran insect resistance	Cry1Ab	2017	✗
14	GHB119	Cotton	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry2Ae	2017	✗
15	Bt11 x 59122 x MIR604 x 1507 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Cry1F, Cry3A, Cry34Ab1, Cry35Ab1	2017	✗
16	281-24-236 x 3006-210-23 x MON88913	Cotton	Glyphosate herbicide tolerance, Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Ac, Cry1F	2017	✗
17	1507	Maize	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Fa2	2017	✗
18	Bt11 x MIR162 x MIR604 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Mcry3A, Vip3Aa20	2016	✗

#	Event	Crop	Trait(s)	Insecticidal gene(s) introduced	Approval year	Cultivation
19	T304-40	Cotton	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	2015	✗
20	MON 531 x MON 1445	Cotton	Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance	Cry1Ac	2015	✗
21	MON 531	Cotton	Lepidopteran insect resistance, Antibiotic resistance	Cry1Ac	2015	✗
22	MON 15985	Cotton	Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ac, Cry2Ab2	2015	✗
23	MON 89034 x 1507 x MON 88017 x 59122	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance,	Cry1A.105, Cry2Ab2, Cry1Fa3, Cry3Bb1, Cry34Ab1, Cry35Ab1	2013	✗
24	MON 89034 x 1507 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance,	Cry1A.105, Cry2Ab2, Cry1Fa2	2013	✗
25	MON 87701 x MON 89788	Soybean	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ac	2012	✗
26	MON 87701	Soybean	Lepidopteran insect resistance	Cry1Ac	2012	✗
27	MIR162	Maize	Lepidopteran insect resistance, Mannose metabolism	Vip3Aa20	2012	✗
28	MON 89034 x MON 88017	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1A.105, Cry2Ab2, Cry3Bb1	2011	✗
29	MIR604 x GA21	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Mannose metabolism	Mcry3A	2011	✗
30	Bt11 x MIR604 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Mcry3A, Vip3Aa20	2011	✗
31	Bt11 x MIR604	Maize	Glufosinate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Mcry3A	2011	✗
32	281-24-236 x 3006-210-23	Cotton	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Ac, Cry1F	2011	✗
33	MON 89034 x NK603	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1A.105, Cry2Ab2	2010	✗
34	MON 88017 x MON 810	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1Ab, Cry3Bb1	2010	✗
35	Bt11	Maize	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	2010	✗
36	59122 x 1507 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance,	Cry1Fa2, Cry34Ab1, Cry35Ab1	2010	✗
37	1507 x 59122	Maize	Glufosinate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance,	Cry1F, Cry34Ab1, Cry35Ab1	2010	✗
38	Bt11 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	2010	✗

#	Event	Crop	Trait(s)	Insecticidal gene(s) introduced	Approval year	Cultivation
39	MON 89034	Maize	Lepidopteran insect resistance, Antibiotic resistance	Cry1A.105, Cry2Ab2	2009	x
40	MON 88017	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance	Cry3Bb1	2009	x
41	MIR604	Maize	Coleopteran insect resistance, Mannose metabolism	Mcry3A	2009	x
42	59122 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance	Cry34Ab1, Cry35Ab1	2009	x
43	MON 810	Maize	Lepidopteran insect resistance	Cry1Ab	1998	✓

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1 Sources Table 3:

- EFSA Register of Questions: <http://registerofquestions.efsa.europa.eu/roqFrontend/login?2>
- European Commission Agendas and Summary Reports PAFF Committee Genetically Modified Food and Feed and Environmental Risk: https://ec.europa.eu/food/plant/standing_committees/sc_modif_genet_en
- European Commission Agendas and Summary Reports Appeals Committee: https://ec.europa.eu/food/committees/appeal/gmffer_e
- International Service for the Acquisition of Agri-Biotech Applications GM Approval Database: <https://www.isaaa.org/gmapprovaldatabase/>
- EU register of GM food and feed: https://ec.europa.eu/food/plant/gmo/eu_register_en

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