

Table 5. Insecticidal Bt crops withdrawn from the EU approval pipeline

#	Event	Crop	Trait(s)	Insecticidal genes introduced	Cultivation
1	MON 87427 x MON 89034 x 1507 x MON 87411 x 59122 x DAS-40278-9	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, 2,4-D herbicide tolerance	Cry2Ab2, Cry1A.105, Cry1F, Cry34Ab1, Cry35Ab1, Cry3Bb1, Dvsnf7	✗
2	MON 87751 x MON 87701 x MON 89788	Soybean	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ac, Cry1A.105, Cry2Ab2	✗
3	3272 x Bt11 x MIR604 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Modified alpha amylase, Mannose metabolism	Cry1Ab, Mcry3A	✗
4	MON 89034	Maize	Lepidopteran insect resistance	Cry2Ab2, Cry1A.105	✓
5	Bt11x MIR604 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Mcry3A	✓
6	MIR604	Maize	Coleopteran insect resistance , Mannose metabolism	Mcry3A	✓
7	MON 89034 x NK603	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry2Ab2, Cry1A.105	✓
8	MON 89034 x MON 88017	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry3Bb1, Cry2Ab2, Cry1A.105	✓
9	Bt11 x MIR162 x GA21	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance, Mannose metabolism	Cry1Ab, Vip3Aa20	✗
10	MON 15985 x MON 1445	Cotton	Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ac, Cry2Ab2	✗
11	MON 88017	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance	Cry3Bb1	✓
12	MON 863 x NK603	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Antibiotic resistance	Cry3Bb1	✗
13	MON 863 x MON 810	Maize	Coleopteran insect resistance , Lepidopteran insect resistance , Antibiotic resistance	Cry3Bb1, Cry1Ab	✗
14	MON 15985 x MON 1445	Cotton	Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ac, Cry2Ab2	✗
15	NK603 x MON 810	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	✗

#	Event	Crop	Trait(s)	Insecticidal genes introduced	Cultivation
16	59122 x 1507 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance	Cry1Fa2, Cry34Ab1, Cry35Ab1	✓
17	LLCotton25 x MON 15985	Cotton	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ac, Cry2Ab2	✗
18	LY038 x MON810	Maize	Lepidopteran insect resistance, Modified amino acid	Cry1Ab	✗
19	59122 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Coleopteran insect resistance	Cry34Ab1, Cry35Ab1	✓
20	NK603 x MON 810	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	✓
21	1507 x NK603	Maize	Glufosinate herbicide tolerance, Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1F	✓
22	281-24-236	Cottonseed	Glufosinate herbicide tolerance, Lepidopteran insect resistance	Cry1Fa2	✗
23	MON 15985 and MON 15985 x MON 1445	Cotton	Glyphosate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance, Visual marker	Cry1Ab, Vip3Aa20	✗
24	MON 863 x MON 810 x NK603	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Lepidopteran insect resistance, Antibiotic resistance	Cry3Bb1, Cry1Ab	✗
25	GA21 x MON810	Maize	Glyphosate herbicide tolerance, Lepidopteran insect resistance	Cry1Ab	✓
26	Bt176	Maize	Glufosinate herbicide tolerance, Lepidopteran insect resistance, Antibiotic resistance	Cry1Ab	✓
27	863	Maize	Glyphosate herbicide tolerance, Coleopteran insect resistance, Antibiotic resistance	Cry3Bb1	✗

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Sources Table 5:

- 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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