

**Voluntary Report** – Voluntary - Public Distribution

**Date:** October 24, 2023

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**Report Name:** MARA Issues New and Renewed Biosafety Certificates

**Country:** China - People's Republic of

**Post:** Beijing

**Report Category:** Biotechnology and Other New Production Technologies, Biotechnology - Plants and Animals, Grain and Feed, Oilseeds and Products, Cotton and Products

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**Report Highlights:**

On October 17, 2023, the Ministry of Agriculture and Rural Affairs (MARA) announced the issuance of new and renewed biosafety certificates for genetically engineered (GE) events. The announcement follows the conclusion of the National Biosafety Committee (NBC) in August 2023 and includes one new certificate issued for GE canola approved for import as processing materials, 162 biosafety certificates renewals for GE cotton domestic cultivation and application, and 21 new and renewed biosafety certificates for genetically modified microorganisms (GMMs) for animal use.

**Summary:**

On October 17, 2023, MARA announced the issuance of new and renewed biosafety certificates for genetically engineered (GE) events. The announcement includes one new biosafety certificate issued for GE canola developed by BASF for import as processing materials, 162 biosafety certificate renewals for GE cotton, and 21 new and renewed biosafety certificates for GMMs for animal use. For the first time, MARA issued a separate list of GMMs for animal use, rather than including them in the same table as GE crops events for domestic cultivation and application. All new and renewed biosafety certificates are valid for five years.

The three lists (in Chinese) are available on the MARA webpage for agricultural biotechnology:

The MARA list of approved import certificates as processing materials is available [here](#).

The MARA list of renewed GE cotton cultivation and application certificates is available [here](#).

The MARA list of new and renewed GMMs for animal use is available [here](#).

This report contains an unofficial translation of the above-mentioned lists. For additional information on China's biosafety certificates and approval process, please see the [2022 China: Agricultural Biotechnology Annual Report](#).

BEGIN UNOFFICIAL TRANSLATION

**Table 1. China: Biotech Crops Approved for Import as Processing Materials in October 2023**

No.	Event	Approval Issued Date	Developer	Biosafety certificate validity
1	Trans bar, barnase and barstar genes tolerant to herbicides, improved canola MS11	September 28, 2023	BASF	Sept. 28, 2023-Sept. 27, 2028

**Table 2. China: Biotech Crops/Events Approved for Cultivation and Application (GM cotton renewal) in October 2023**

No.	Event	Developer	Ecological Zone	Biosafety certificate validity
1	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Han hybrid cotton No. 16 (renewal)	Handan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
2	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Han cotton No. 17 (renewal)	Handan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
3	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Hanmian No. 18 (renewal)	Handan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
4	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Han cotton 6105 (renewal)	Handan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
5	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Han cotton 3026 (renewal)	Handan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

THIS REPORT CONTAINS ASSESSMENTS OF COMMODITY AND TRADE ISSUES MADE BY USDA STAFF AND NOT NECESSARILY STATEMENTS OF OFFICIAL U.S. GOVERNMENT POLICY

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
6	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Han cotton 3011 (renewal)	Handan Academy of Agricultural Sciences, Jinan Xinrui Seed Technology Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
7	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji 122 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
8	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji cotton 30 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
9	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Hebei 2658(renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
10	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji 863 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
11	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji cotton 521 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
12	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji cotton 9218 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
13	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jiza 529 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
14	Trans- cry1Ab/cry1Ac gene insect-	Cotton Research Institute of	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Ecological Zone	Biosafety certificate validity
	resistant cotton Jimian 315 (renewal)	Hebei Academy of Agriculture and Forestry Sciences		
15	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ji cotton 9116 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
16	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jiza 162 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
17	Trans- cry1Ab/cry1Ac gene into insect-resistant cotton Jihang No. 8 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
18	Trans- of cry1Ab/cry1Ac gene into insect-resistant cotton Jimian No. 2106 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
19	Trans- cry1Ab/cry1Ac gene into insect-resistant cotton Jimian No. 918(renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Yellow River Basin Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
20	Trans- cry1Ab/cry1Ac gene into insect-resistant cotton Jimian No. 2896 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences; Hebei Jimian Jingzuo Technology Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
21	Trans- cry1Ab/cry1Ac gene into insect-resistant cotton Jimian No. 818 (renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences; Hebei	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Ecological Zone	Biosafety certificate validity
		Jimian Jingzuo Technology Co., Ltd.		
22	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Yumian 203 (renewal)	Economic Crops Research Institute of Henan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
23	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Yumian 111 (renewal)	Economic Crops Research Institute of Henan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
24	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Yumian 409 (renewal)	Economic Crops Research Institute of Henan Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
25	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Yujun No. 6 (renewal)	Huimin County Luyou Cotton Research institute	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
26	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Ruimian No. 8 (renewal)	Jinan Xinrui Seed Technology Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
27	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1172 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
28	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1131 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
29	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1127 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
30	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 38 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
31	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 39	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
32	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 23(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
33	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lu 8H29 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
34	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lu05H9 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
35	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Luza 1178 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
36	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1177 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
37	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 32 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
38	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 418(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
39	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 424(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
40	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 451 (renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
41	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 452(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
42	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 258(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
43	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 2387(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
44	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 696(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
45	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lu H928(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
46	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianza 2949(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
47	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lu H424(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
48	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lu H462(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
49	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 691(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
50	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianza 2138(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
51	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 241(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
52	Trans- cry1Ab/cry1Ac gene insect-	Shandong Academy of	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
	resistant cotton Lumian 392(renewal)	Agricultural Sciences		
53	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 37(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
54	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianza 311(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
55	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianza 313(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
56	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 6269(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
57	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 378(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
58	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 40(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
59	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 7619(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
60	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 319(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
61	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 336(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
62	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 338(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
63	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 5172(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
64	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 522(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
65	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian K638(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
66	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 532(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
67	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 5171(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
68	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 2436(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
69	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 266(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
70	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 35(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
71	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 36(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
72	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 2632(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
73	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian yan19(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
74	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 265(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
75	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 21(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
76	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumianyan 24(renewal)	Shandong Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
77	Trans- cry1Ab/cry1Ac gene insect-	Shandong Academy of	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

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	resistant cotton Lumian 247(renewal)	Agricultural Sciences		
78	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 312(renewal)	Shandong Academy of Agricultural Sciences; Shandong Luyi Seed Technology Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
79	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Chuangyoumian 168(renewal)	Shijiazhuang Minfeng Seed Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
80	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jizhongmian 608(renewal)	Shijiazhuang Minfeng Seed Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
81	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Xinkangmian 963(renewal)	Shijiazhuang Minfeng Seed Co., Ltd.	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
82	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 95613(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
83	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 95614(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
84	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 95615(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
85	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 95612(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
86	Trans- cry1Ab/cry1Ac gene insect-	Cotton Research Institute,	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
	resistant cotton Zhongmiansuo 95611(renewal)	Chinese Academy of Agricultural Sciences		
87	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 100(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
88	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 96032(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
89	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 96030(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
90	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 96031(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
91	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 96033(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
92	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 96034(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
93	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1705(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
94	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1704(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
95	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1703(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
96	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1702(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
97	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1701(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
98	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB904(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
99	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB906(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
100	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMBC31123 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
101	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB903(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
102	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB902(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
103	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB901(renewal)	Cotton Research Institute, Chinese Academy of	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
		Agricultural Sciences		
104	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo XJ1801(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
105	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo XJ1803(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
106	Trans- cry1A gene insect-resistant cotton Zhongshengmian No. 2(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
107	Trans- cry1A gene insect-resistant cotton Zhongmiansuo XJ1801(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
108	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongshengmian No. 5(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
109	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongshengmian No. 6(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
110	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongshengmian No. 13(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
111	Trans- cry1Ab/cry1Ac gene insect-resistant cotton GK12(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yellow River Basin	Sept. 28, 2023-Sept. 27, 2028
112	Trans- cry1Ab/cry1Ac gene insect-	Cotton Research Institute, Anhui	Yangtze River	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
	resistant cotton Wanzamian 1506(renewal)	Academy of Agricultural Sciences	Basin	
113	Trans- cry1Ab/cry1Ac gene insect- resistant cotton Wanmian 1331(renewal)	Cotton Research Institute, Anhui Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
114	Trans- cry1Ab/cry1Ac gene insect- resistant cotton HK39 (renewal)	Hubei Huazhixia Seed Co., Ltd.	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
115	Trans- cry1Ab/cry1Ac gene insect- resistant cotton HuaM2(renewal)	Hubei Huazhixia Seed Co., Ltd.	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
116	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangQ190(renewal)	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
117	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangC176(renewal)	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
118	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangC178(renewal)	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
119	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangX0935	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
120	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangCH008 (renewal)	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
121	Trans- cry1Ab/cry1Ac gene insect- resistant cotton XiangX1067(renewal)	Cotton Research Institute, Hunan Academy of Agricultural	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
		Sciences		
122	Trans- cry1Ab/cry1Ac gene insect-resistant cotton XiangK645(renewal)	Cotton Research Institute, Hunan Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
123	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Huamian 1543(renewal)	Huazhong Agricultural University	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
124	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Huamian 3134(renewal)	Huazhong Agricultural University	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
125	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Huamian 5198(renewal)	Huazhong Agricultural University	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
126	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Huamian 1108(renewal)	Huazhong Agricultural University	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
127	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jingmian E12(renewal)	Jingzhou Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
128	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jingmian 613(renewal)	Jingzhou Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
129	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jingmian 94(renewal)	Jingzhou Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
130	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jinghuamian112 (renewal)	Jingzhou Jinhua Seed Technology Co., Ltd.	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
131	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jinghuamian113(renewal)	Jingzhou Jinhua Seed Technology Co., Ltd.	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
132	Trans- cry1Ab/cry1Ac gene insect-	Jingzhou Jinhua Seed	Yangtze River	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
	resistant cotton Jinghuamian134 (renewal)	Technology Co., Ltd.	Basin	
133	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jinghuamian 116(renewal)	Jingzhou Jinghua Seed Technology Co., Ltd.	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
134	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo96036 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
135	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo96026 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
136	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1706 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
137	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo EM1708(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
138	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMBC31123 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
139	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB905 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
140	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB903 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
141	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB902 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
142	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongMB901 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
143	Trans- cry1A gene insect-resistant cotton Zhongshengmian No. 10(renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
144	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongshengmian No. 11 (renewal)	Biotechnology Research Institute, Chinese Academy of Agricultural Sciences	Yangtze River Basin	Sept. 28, 2023-Sept. 27, 2028
145	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jimian 995(renewal)	Cotton Research Institute of Hebei Academy of Agriculture and Forestry Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
146	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1172	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
147	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 2436(renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
148	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 5172 (renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
149	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 266(renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
150	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 5171(renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
151	Trans- cry1Ab/cry1Ac gene insect-	Shandong Academy of	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028

<b>No.</b>	<b>Event</b>	<b>Developer</b>	<b>Ecological Zone</b>	<b>Biosafety certificate validity</b>
	resistant cotton Lumian 1177(renewal)	Agricultural Sciences		
152	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 1127 (renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
153	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Lumian 522(renewal)	Shandong Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
154	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Fuquan 55(renewal)	Xinjiang Fuxinke Seed Industry Co., Ltd.	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
155	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Huiyuan 26(renewal)	Xinjiang Huiyuan Seed Industry Co., Ltd.	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
156	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Jinken 1779(renewal)	Xinjiang Academy of Agricultural Reclamation Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
157	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongmiansuoXJ1801(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
158	Trans- cry1Ab/cry1Ac gene insect-resistant cotton ZhongM17433 (renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
159	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhong MB906(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
160	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhong MB907(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028
161	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo	Cotton Research Institute, Chinese Academy of	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Ecological Zone	Biosafety certificate validity
	96034(renewal)	Agricultural Sciences		
162	Trans- cry1Ab/cry1Ac gene insect-resistant cotton Zhongmiansuo 95611(renewal)	Cotton Research Institute, Chinese Academy of Agricultural Sciences	Inland Northwest	Sept. 28, 2023-Sept. 27, 2028

**Table 3. China: Biotech Events Approved for Cultivation and Application (GMMs for Animal Use) in October 2023**

No.	Event	Developer	Type	Biosafety certificate validity
1	Expression of recombinant <i>Pichia pastoris</i> GS115 (pPIC9-godA) glucose oxidase(renewal)	Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028
2	Recombinant <i>Pichia pastoris</i> GS115 (pPIC9-pgA) expressed pectinase(renewal)	Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028
3	Expression of recombinant <i>Pichia pastoris</i> GS115 (pPIC9-phyP) of phytase(renewal)	Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028
4	Recombinant <i>E. coli</i> BL21(DE3)/pETPoIFN- $\alpha$ Expressed porcine interferon alpha(renewal)	Beijing Baoyi Biotechnology Co., Ltd.	Biopharmaceuticals	Sept. 28, 2023-Sept. 27, 2028
5	Recombinant <i>Autographa californica</i> nuclear polyhedrosis virus AcMN	(INTERVET INTERNATIONAL B.V	Vaccine	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Type	Biosafety certificate validity
	Porcine circovirus 2 expressed by PV (pAcAS3-ORF2) Type ORF2 genetically engineered subunit vaccine (renewal)	Msd (Ningbo) Animal Health Technology Co., Ltd		
6	Recombinant human type 5 complex expressing swine fever virus E0/E2 genes (renewal) Defective adenovirus live vector vaccine rAd-E0-E2(renewal)	Yunnan Agricultural University	Vaccine	Sept. 28, 2023-Sept. 27, 2028
7	Recombinant E. coli BL21(DE3)/pETCatIFN- $\omega$ -expressing feline $\omega$ -interferon CatIFN- $\omega$ (newly approved in September 2023)	Beijing Baoyi Biotechnology Co., Ltd.; Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences; Hebei Baoying Biotechnology Co., Ltd.; Beijing Yinong Biological Sciences Technology Co., Ltd.	Biopharmaceuticals	Sept. 28, 2023-Sept. 27, 2028
8	Recombinant Pichia pastorisX-33/pPICZ $\alpha$ A -NZ2114 expressed biotaxin (newly approved in September 2023)	Feed Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028
9	Recombinant turkey herpes expressing Newcastle disease virus F gene Live viral vector vaccine Vectormune-ND (newly approved in September	Shihua Animal Health (Beijing) Technology Co., Ltd	Vaccine	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Type	Biosafety certificate validity
	2023)			
10	Expression of Newcastle disease virus F gene and H9 subtype avian influenza Recombinant Turkey Herpes Virus Live Vector Isolation of Viral HA Gene Miao Newflend-ND-H9 (newly approved in September 2023)	Shihua Animal Health (Beijing) Technology Co., Ltd	Vaccine	Sept. 28, 2023-Sept. 27, 2028
11	Recombinant turkey herpes expressing HA gene of avian influenza virus Live viral vector vaccine HVT-H9 (newly approved in September 2023)	Chinese Agricultural University	Vaccine	Sept. 28, 2023-Sept. 27, 2028
12	Deletion of gE, gI, US9, UL49.5 and TK genes Pseudorabies virus vaccine PRV-gE-/gI-/US9-/ΔUL49.5/TK (newly approved in September 2023)	China Institute of Veterinary Drug Control	Vaccine	Sept. 28, 2023-Sept. 27, 2028
13	Recombinant Newcastle disease attenuated vaccine LaS constructed by reverse genetics ota-HN (newly approved in September 2023)	Chinese Agricultural University	Vaccine	Sept. 28, 2023-Sept. 27, 2028
14	Porcine pseudorabies virus lacking TK, gE and gI genes Vaccine DBN-E6TK-/gE-/gI- (newly approved in September 2023)	Zhaofenghua Biotechnology (Nanjing) Co., Ltd.	Vaccine	Sept. 28, 2023-Sept. 27, 2028
15	Porcine pseudorabies lacking gI, gE, US9 and US2 genes	Wuhan Keqian Biology Co., Ltd.	Vaccine	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Type	Biosafety certificate validity
	Virus inactivated vaccine PRVXF-1 ( $\Delta$ gI/gE/US9/US2) (newly approved in September 2023)			
16	Recombinant pigs expressing porcine circovirus type 2 ORF2 gene Circovirus type I vector inactivated vaccine PCV1-2 (newly approved in September 2023)	Wuhan Keqian Biology Co., Ltd.	Vaccine	Sept. 28, 2023-Sept. 27, 2028
17	Recombinant E. coli BL21(DE3)/pET-D-IL-2 Expression of duck interleukin-2-Duck IL-2 (newly approved in September 2023)	Beijing Baoyi Biotechnology Co., Ltd.; Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences; Hebei Baoying Biotechnology Co., Ltd.; Beijing Yinong Biological Sciences Technology Co., Ltd.	Biopharmaceuticals	Sept. 28, 2023-Sept. 27, 2028
18	Recombinant E. coli BL21(DE3)/pETChIFN-a Expressed chicken alpha interferon ChIFN- $\alpha$ (newly approved in September 2023)	Beijing Baoyi Biotechnology Co., Ltd.; Harbin Veterinary Research Institute, Chinese Academy of Agricultural Sciences	Biopharmaceuticals	Sept. 28, 2023-Sept. 27, 2028
19	Salmonella vaccine HXS lacking crp and cya genes P16 $\Delta$ crp $\Delta$ cya (newly approved in September 2023)	Hebei Kexing Pharmaceutical Co., Ltd.	Vaccine	Sept. 28, 2023-Sept. 27, 2028

No.	Event	Developer	Type	Biosafety certificate validity
20	Recombinant <i>Bacillus subtilis</i> 168 (pWB980-CBP21) Expressed chitin oxidohydrolase CBP21 (newly approved in September 2023)	Feed Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028
21	Expression of recombinant <i>Pichia pastoris</i> GS115 (pPIC9-Chi92) Chitinase Chi92 (newly approved in September 2023)	Feed Research Institute of Chinese Academy of Agricultural Sciences	Feed Additives	Sept. 28, 2023-Sept. 27, 2028

END UNOFFICIAL TRANSLATION

**Attachments:**

No Attachments.