

表 2 抗除草剂转基因棉花的商业化概况

Table 2 Summary of commercialized transgenic herbicide-resistant cotton

抗性特征 Resistant trait	基因特性 Gene characteristics	基因来源 Gene origin	代表品种/系 Representative cultivar or line	研制公司 Breeding company	商业化年份 Released year
溴苯腈 Bromoxynil	<i>Bxn</i> nitrilase	臭鼻克雷伯氏菌 <i>Klebsiella ozaenae</i>	BXN	Rhone-Poulenc	1995
草甘膦 Glyphosate	<i>cp4-epsps</i>	农杆菌 <i>Agrobacterium tumefaciens</i>	MON1445	Monsanto	1996
	<i>2cp4-epsps</i>	农杆菌 <i>Agrobacterium tumefaciens</i>	MON88913	Monsanto	2006
	<i>2mepsps</i>	玉米 <i>Zea mays</i>	GBH614	Bayer	2009
草铵膦 Glufosinate	<i>PAT</i>	吸水链霉菌 <i>Streptomyces hygroscopicus</i>	LLCotton25	Bayer	1996
	<i>bar</i>	绿色产色链霉菌 <i>Streptomyces viridochromogenes</i>	LLCotton25		
磺酰脲类 Sulfonylureas	<i>Als</i>	拟南芥 <i>Arabidopsis thaliana</i>		Dupont	1997
	<i>als</i>	烟草 <i>Nicotiana tabacum</i>			