



ISAAA: Fact Sheet on Biotech Crops under Development in India (2005)

S.No.	Crop*	Organization	Transgene
1	Brinjal	IARI, New Delhi Mahyco, Mumbai TNAU, Chennai	cry1Ab cry1Ac cry1Ac
2	Cotton	Ankur Seeds Pvt Ltd, Nagpur Ajeet Seeds, Aurangabad Bioseeds Ltd, Hyderabad Emergent Genetics Pvt Ltd, Hyderabad Ganga Kaveri Pvt Ltd, Hyderabad JK Agri-Genetics Pvt Ltd, Hyderabad Krishidhan Seeds, Jana Mahyco, Jalna Methahelix, Bangalore Nandhi Seeds Pvt Ltd, Hyderabad Nath Seeds Pvt Ltd, Aurangabad Nuziveedu Seeds Pvt Ltd, Hyderabad Namdari Seeds Pvt Ltd, Bangalore Pravardhan Seeds Pvt Ltd, Hyderabad Prabhat Agri Biotech Pvt Ltd, Hyderabad Rasi Seeds Pvt Ltd, Attur Safal Seeds Pvt Ltd, Jalna Syngenta India Pvt Ltd, Pune Tulsi Seeds Pvt Ltd, Guntur Uni. of Agriculture Sciences, Dharwad Vibha Seeds Pvt Ltd, Hyderabad Vikki's Agrotech, Hyderabad Vikram Seeds Pvt Ltd, Ahmedabad Zuari Agrotech Ltd, Bangalore	<i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac</i> <i>cry1Ac</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1c</i> <i>cry1Ac</i> <i>GFM cry1Aa</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>GFM cry1Aa</i> <i>cry1Ac</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>GFM cry1Aa</i> <i>Vip-3a</i> <i>cry1Ac; cry1Ac & cry2Ab</i> <i>cry1Ab</i> <i>cr1Ac</i> <i>cry1Ac</i> <i>cry1Ac</i> <i>GFM cry1Aa</i>
3	Cauliflower	Mahyco, Mumbai Sungrow Seeds Ltd, New Delhi	<i>cry1Ac</i> <i>cry1Ac</i>
4	Cabbage	Sungrow Seeds Ltd, New Delhi	<i>cry1Ac</i>

5	Chickpea	ICRISAT, Hyderabad	<i>cryIAc</i> and <i>cryIAb</i>
6	Groundnut	ICRISAT, Hyderabad	<i>IPCVcp:IPCV replicase</i> gene
7	Maize	Monsanto, Mumbai	CP4 EPSPS
8	Mustard	IARI, New Delhi NRCWS, Jabalpur TERI, New Delhi UDSC, New Delhi	<i>CodA</i> , <i>Osmotin</i> <i>bar</i> , <i>barnase</i> & <i>barstar</i> <i>Ssu-maize Psy</i> , <i>Ssu-tpCrtI</i> <i>bar</i> , <i>barnase</i> & <i>barstar</i>
9	Okra	Mahyco, Mumbai	<i>cryIAc</i>
10	Pigeonpea	ICRISAT, Hyderabad Mahyco, Mumbai	<i>cryIAb</i> + <i>SBTI</i> <i>cryIAc</i>
11	Potato	CPRI, Simla NCPGR, New Delhi	<i>cryIAb</i> <i>Ama-1</i> gene
12	Rice	DRR, Hyderabad Osmania University, Hyderabad IARI, New Delhi Mahyco, Mumbai MKU, Madurai MSSRF, Chennai TNAU, Coimbatore	<i>Bacterial blight resistant</i> <i>Xa-21</i> , <i>cryIAb</i> , <i>gna</i> gene, <i>Sheath blight resistant</i> <i>gna</i> gene <i>Bt.</i> and <i>chitanase</i> genes, <i>cryIAc</i> and <i>cryIB-cryIAa</i> <i>cryIAc</i> <i>Chitinase ?-1,3-glucanase</i> <i>Osmotin</i> Gene(s) from mangrove species <i>Avicennia marina</i> <i>Chitinase</i>
13	Sorghum	Mahyco, Mumbai	<i>cryIAc</i>
14	Tomato	Mahyco, Mumbai NCPGR, New Delhi	<i>cryIAc</i> <i>OXDC</i>

Source: Department of Biotechnology, Government of India

* These crops with different genes-traits combinations are under the various stages of developments in India.

Institutions

CPRI - Central Potato Research Institute, Shimla

DRR - Directorate of Rice Research, Hyderabad

IARI - India Agriculture Research Institute, New Delhi

ICRISAT - International Crops Research Institute of Semi-Arid Tropics, Hyderabad

MKU - Madurai Kamaraj University, Madurai

MSSRF – MS Swaminathan Research Foundation, Chennai

NCPGR - National Centre for Plant Genome Research, New Delhi

NRCWS - National Research Centre for Weed Sciences, Jabalpur

TNAU – Tamil Nadu Agricultural University, Coimbatore

TERI - The Energy and Resource Institute, New Delhi

UDSC - University of Delhi South Campus, New Delhi

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