

Report code: AR-19-IR-036898-01



Batch code: EUINBA-00045842

ULR: TC543619000025635P

Report date: 18.06.2019

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INDIA

Mr Narayana Upadhyaya

ANALYTICAL REPORT

Sample code:	258-2019-05006015	Received on:	27.05.2019
Sample name:	Raw Cotton	Analysed between:	27.05.2019 - 18.06.2019
Sample reference	Sample Codes : Composite Sample - ORG-1612-002155,ORG-1703-000432,ORG-1805-000889-ORG-1805-000891(65390820) Lot number : 2019031811,144756,49135		
Sample Appearance:	Black colour cotton seeds		
Quantity received:	400g	Sample packing:	Sealed Polythene Pack
Condition on receipt:	Good	Sampling:	NOT SAMPLED BY EUROFINS

PESTICIDES		Method	Result Unit
IR462	IR Screened pesticides	EASI-CHE-SOP-021, GC-MS/MS	Not Detected
IR267	IR Screened pesticides	EASI-CHE-SOP-021, GC-MS/MS	Not Detected
GMO		Method	Result Unit
GS005	GS 35S promoter	EFGT 09.136(20.02.2018), PCR	positive
GS125	GS NOS terminator	EFGT 09.136(20.02.2018), PCR	positive

CONCLUSION :

GMO :

Result 35S promoter: DNA sequences typical for the 35S promoter were detected.

Comment: The sample contains DNA sequences which are characteristic for 35S promoter of the Cauliflower Mosaic Virus (CaMV). This target sequence is commonly engineered in genetically modified plants. In the case of raw meal the limit of detection of genetically modified DNA is 0.01%.

A positive screening result strongly indicates the existence of a genetic modification. To give a conclusive statement specific DNA of a genetically modified plant has to be detected.

The analysis was done using qualitative Real-time PCR.

Result NOS terminator: DNA sequences typical for the NOS terminator were detected.

Comment: The sample contains DNA sequences which are characteristic for the NOS terminator element of Agrobacterium tumefaciens. This target sequence is commonly engineered in genetically modified plants. In the case of raw meal the limit of detection of genetically modified DNA is 0.01%.

A positive screening strongly indicates the existence of a genetic modification. To give a definite

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statement the DNA specific for genetically modified plant has to be detected.
The analysis was done using qualitative Real-time PCR.

PESTICIDES :

The results of the above mentioned analyses are in accordance with the requirements of regulation (EC) 396/2005 (regulation on maximum residue levels of pesticides in or on food and feed) in its currently valid version.

List of screened molecules and not detected (* = limit of quantification)

IR267	IR	Organo Chlorine Group (OC Group) (LOQ* mg/kg)		
2, 4 - DDT (0.01)		2,4 - DDE (0.01)	2,4'-DDD (0.01)	4,4-DDD (0.01)
4,4-DDT (0.01)		Aldrin (0.01)	alpha-HCH (0.01)	beta- HCH (0.01)
Chlorothalonil (0.01)		delta-HCH (0.01)	Dicofol (0.01)	Dieldrin (0.01)
Endosulfan, alpha- (0.01)		Endosulfan, beta- (0.01)	Endrin (0.01)	Heptachlor (0.01)
Lindane (gamma-HCH) (0.01)		Methoxychlor (0.01)	Polychloroterpene (Camphechlor) (0.01)	4,4-DDE (0.01)
				Chlordane (0.01)
				Endosulfan sulphate (0.01)
				Hexachlorobenzene (HCB) (0.01)
IR462	IR	Organo Phosphorus Pesticides (LOQ* mg/kg)		
Acephate (0.01)		Anilofos (0.01)	Azinphos-ethyl (0.01)	Azinphos-methyl (0.01)
Chlorpyrifos (0.01)		Chlorpyrifos-methyl (0.01)	Demeton-S-methyl (0.01)	Demeton-S-methyl-sulfone (0.01)
Dimethoate (0.01)		Edifenphos (0.01)	Ethion (0.01)	Ethoprophos (0.01)
Fenamiphos (0.01)		Fenitrothion (0.01)	Fenthion (0.01)	Fenthion-oxon (0.01)
Fenthion-sulfoxide (0.01)		Iprobenfos (0.01)	Malaoxon (0.01)	Malathion (0.01)
Monocrotophos (0.01)		Omethoate (0.01)	Paraoxon-methyl (0.01)	Parathion-methyl (0.01)
Phorate (0.01)		Phorate-sulfone (0.01)	Phorate-sulfoxide (0.01)	Phosalone (0.01)
Pirimiphos-methyl (0.01)		Profenofos (0.01)	Propetamphos (0.01)	Quinalphos (0.01)
Triazophos (0.01)		Trichlorfon (0.01)		Chlorfenvinphos (0.01)
				Diazinon (0.01)
				Etrifos (0.01)
				Fenthion-sulfone (0.01)
				Methamidophos (0.01)
				Phenthoate (0.01)
				Phosphamidon (0.01)
				Thiometon (0.01)

The tests identified by the two letters code GS are subcontracted to our Eurofins Group lab.

The tests identified by the two letters code IR are performed by Eurofins Analytical Services India (Bangalore), INDIA.



Dr Gouri Satpathy

Senior Manager

***** END OF REPORT *****

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