

Report code: AR-19-IR-041782-01



Batch code: EUINBA-00047489

ULR: TC543619000028830F

Report date: 09.07.2019

**M LALLUBHAI & COMPANY - Mumbai**

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Mr Viren Shah

## ANALYTICAL REPORT

<b>Sample code:</b>	258-2019-07000912	<b>Received on:</b>	04.07.2019
<b>Sample name:</b>	Cumin Seed	<b>Analysed between:</b>	04.07.2019 - 09.07.2019
<b>Sample reference</b>	QSS Seal No : QSS/178 Ref No. : Lot no: IPM/06/19-20		
<b>Sample Appearance:</b>	Brown colour seeds		
<b>Quantity received:</b>	500g	<b>Sample packing:</b>	Sealed Polythene Pack (Sealed by Quality Services & Solutions)
<b>Condition on receipt:</b>	Good	<b>Sampling:</b>	NOT SAMPLED BY EUROFINS

PESTICIDES		Result Unit	LOQ	MRL
<b>IR408</b>	<b>IR Pesticides GC-MS/MS</b>	<b>Method: EASI-CHE-SOP-21, GC-MS/MS</b>		
Fenvalerate		0.049 mg/kg	0.01	0.1
Other screened pesticides		Not Detected		
<b>IR0ZQ</b>	<b>IR Pesticides LC-MS/MS</b>	<b>Method: EASI-CHE-SOP-21, LC-MS/MS</b>		
Dimethoate		0.025 mg/kg	0.01	5.0
Imidacloprid		0.030 mg/kg	0.01	0.05
Thiamethoxam		0.010 mg/kg	0.01	0.05
Carbendazim		0.200 mg/kg	0.01	0.1
Other screened pesticides		Not Detected		

### Sample Conclusion:

Even considering an analytical variation of 50 %, the concentration of Carbendazim is clearly exceeded the MRL. Therefore, the analyzed sample is not in accordance with requirements of EU 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)

IR0ZQ	IR	Pesticides LC-MS/MS (LOQ* mg/kg)			
1-Naphthylacetamide/1-Naphthylacetic acid (cal. as (0.01)	2,4-D (0.01)	3-chloroaniline (0.01)	3-Hydroxycarbofuran (0.01)	4-Bromo-2-Chlorophenol (0.01)	
4-CPA (0.01)	Abamectin (0.01)	Acephate (0.01)	Acequinocyl (0.01)	Acetamiprid (0.01)	
Acibenzolar-s-methyl (0.01)	Alachlor (0.01)	Alanycarb (0.01)	Aldicarb (0.01)	Aldicarb sulfone (0.01)	
Aldicarb-sulfoxide (0.01)	Ametoctradin (0.01)	Amidosulfuron (0.01)	Aminocarb (0.01)	Aminopyralid (0.01)	
Amitraz (0.01)	Amitrole (0.01)	Anilazine (0.01)	Anilofos (0.01)	Asulam (0.01)	
Atrazine (0.01)	Azaconazole (0.01)	Azamethiphos (0.01)	Azimsulfuron (0.01)	Azinphos-ethyl (0.01)	
Azinphos-methyl (0.01)	Azinphos-methyl (Guthion) (0.01)	Azocyclotin (0.01)	Azoxystrobin (0.01)	Barban (0.01)	
Beflubutamid (0.01)	Benalaxyl (0.01)	Benalaxyl including other mixtures of constituent (0.01)	Bendiocarb (0.01)	Benfluralin (0.01)	
Benfuracarb (0.01)	Benomyl (0.01)	Bentazone (0.01)	Bentazone-8-hydroxy (0.01)	Benthiavalicarb, isopropyl- (0.01)	
Benzoximate (0.01)	Bifenazate (0.01)	Bifenox (0.01)	Bispyribac Sodium (0.01)	Bitertanol (0.01)	

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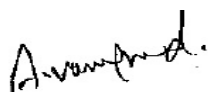
IR0ZQ	IR	Pesticides LC-MS/MS (LOQ* mg/kg)			
Bixafen (0.01)		Bromophos-methyl (0.01)	Bupirimate (0.01)	Buprofezin (0.01)	Butachlor (0.01)
Butocarboxim (0.01)		Carbaryl (0.01)	Carbazole (0.01)	Carbetamide (0.01)	Carbofuran (0.01)
Carbosulfan (0.01)		Carboxin (0.01)	Carfentrazone-ethyl (0.01)	Chlorantraniliprole (0.01)	Chlorbufam (0.01)
Chlorfenson (0.01)		Chlorfluazuron (0.01)	Chloridazone (0.01)	Chlorimuron-Ethyl (0.01)	Chlormequat (0.01)
Chlorotoluron (0.01)		Chloroxuron (0.01)	Chlorpyrifos-methyl (0.01)	Chlorsulfuron (0.01)	Chlorthal-dimethyl (0.01)
Chlorthiamid (0.01)		Chromafenozide (0.01)	Clethodim (0.01)	Clofentezine (0.01)	Clothianidin (0.01)
Cyantraniliprole (0.01)		Cyazofamid (0.01)	Cycloate/Ro Neet (0.01)	Cycloxydim (0.01)	Cycluron (0.01)
Cyhexatin (0.01)		Cymoxanil (0.01)	Cyproconazole (0.01)	Cyprodinil (0.01)	Cyromazine (0.01)
Dalapon (0.01)		Daminozide (0.01)	Dazomet (0.01)	DEET (Diethyltoluamide) (0.01)	Demeton-S-methyl (0.01)
Demeton-S-methyl-sulfone (0.01)		Desmedipham (0.01)	Diafenthiuron (0.01)	Diazinon (0.01)	Dichlofluanid (0.01)
Diclofop-methyl (0.01)		Diflubenuron (0.01)	dimethenamid-P (0.01)	Dimethipin (0.01)	Dimethomorph (0.01)
Dimoxystrobin (0.01)		Diniconazole (0.01)	Dinocap (0.01)	Dinoseb (0.01)	Dinotefuran (0.01)
Dinoterb (0.01)		Dioxacarb (0.01)	Dioxathion (0.01)	Diphenylamine (0.01)	Disulfoton (0.01)
Dithianon (0.01)		Diuron (0.01)	DNOC (0.01)	Dodine (0.01)	Edifenphos (0.01)
Emamectin, benzoate- (0.01)		EPTC (0.01)	Ethalfuralin (0.01)	Ethion (0.01)	Ethirimol (0.01)
Ethofumesate (0.01)		Ethoprophos (0.01)	Ethoxyquin (0.01)	Etrimfos (0.01)	Famoxadone (0.01)
Fenamiphos (0.01)		Fenazaquin (0.01)	Fenbuconazole (0.01)	Fenbutatin oxide (0.01)	Fenchlorphos (0.01)
Fenhexamid (0.01)		Fenobucarb (0.01)	Fenoxaprop-p-ethyl (0.01)	Fenpyroximate (0.01)	Fensulfthion (0.01)
Fenthion (0.01)		Fenthion-oxon (0.01)	Fenthion-sulfone (0.01)	Fenthion-sulfoxide (0.01)	Fentin hydroxide (0.01)
Fenuron (0.01)		Fipronil (0.005)	Flazasulfuron (0.01)	Flonicamid (0.01)	Florasulam (0.01)
Fluazifop-P-butyl (0.01)		Fluazinam (0.01)	Flubendiamide (0.01)	Flucycloxuron (0.01)	Fludioxonil (0.01)
Flufenoxuron (0.01)		Flumetsulam (0.01)	Flumioxazin (0.01)	Fluometuron (0.01)	Fluopicolid (0.01)
Fluoxastrobin (0.01)		Flurprimidol (0.01)	Flurtamone (0.01)	Flutriafol (0.01)	Fluxapyroxad (0.01)
Fomesafen (0.01)		Foramsulfuron (0.01)	Forchlorfenuron (0.01)	Formetanate HCl (0.01)	Formothion (0.01)
Fosetyl-aluminium (0.01)		Fuberidazole (0.01)	Furalaxyl (0.01)	Furfural (0.01)	GIBBERELIC ACID (0.01)
Guazatine acetate (GG) (0.01)		Halofenozide (0.01)	Halosulfuron-methyl (0.01)	Hexaconazole (0.01)	Hexaflumuron (0.01)
Hexythiazox (0.01)		Hymexazol (0.01)	Imazamox (0.01)	Imazapic (0.01)	Imazaquin (0.01)
Imazethapyr (0.01)		Iodosulfuron methyl (0.01)	Ioxynil (0.01)	IPCONAZOLE (0.01)	Iprodione (0.01)
Iprovalicarb (0.01)		Isoprothiolane (0.01)	Isoproturon (0.01)	Isoxaflutole (0.01)	Lactofen (0.01)
Linuron (0.01)		Lufenuron (0.01)	Malaoxon (0.01)	Malathion (0.01)	Maleic hydrazide (MH-30) (0.01)
Mandipropamid (0.01)		MCPA (0.01)	Mecarbam (0.01)	Mecoprop (0.01)	Mefenoxam (Metalaxyl-M) (0.01)
Mepanipyrim (0.01)		Meptyldinocap (0.01)	Mesosulfuron-methyl (0.01)	Mesotrione (0.01)	Metaflumizone (0.01)
Metalaxyl (0.01)		Metamitron (0.01)	Methabenzthiazuron (0.01)	Methamidophos (0.01)	Methidathion (0.01)
Methiocarb (0.01)		Methomyl (0.01)	Methoprotryne (0.01)	Methoxyfenozide (0.01)	Metobromuron (0.01)
Metosulam (0.01)		Metsulfuron (0.01)	Metsulfuron-methyl (0.01)	Mevinphos (0.01)	Mexacarbate (0.01)
Monocrotophos (0.01)		Monolinuron (0.01)	Monuron (0.01)	Moxidectin (0.01)	Napropamide (0.01)
Nicosulfuron (0.01)		Nitenpyram (0.01)	Novaluron (0.01)	Omethoate (0.01)	Orthosulfamuron (0.01)
Oryzalin (0.01)		Oxadiargyl (0.01)	Oxamyl (0.01)	Oxasulfuron (0.01)	Oxycarboxin (0.01)
Paraoxon-ethyl (0.01)		Paraoxon-methyl (0.01)	Penconazole (0.01)	Pencycuron (0.01)	Pendimethalin (0.01)
Penoxsulam (0.01)		Pethoxamid (0.01)	Phenmedipham (0.01)	Phorate (0.01)	Phorate-sulfone (0.01)
Phorate-sulfoxide (0.01)		Phosalone (0.01)	Phosmet (0.01)	Phosphamidon (0.01)	Phoxim (0.01)
Picloram (0.01)		Picoxystrobin (0.01)	Pinoxaden (0.01)	Pirimiphos-methyl (0.01)	Pretilachlor (0.01)
Profoxydim (0.01)		Prohexadione Calcium (0.01)	Propamocarb (0.01)	Propanil (0.01)	Propaquizafop (0.01)
Propargite (0.01)		Propetamphos (0.01)	Propham (0.01)	Propiconazole (0.01)	propisochlor (0.01)
Propoxur (0.01)		Proquinazid (0.01)	Prosulfuron (0.01)	Prothioconazole (0.01)	Pyracarbolid (0.01)
Pyraclostrobin (0.01)		Pyrasulfotole (0.01)	Pyrazophos (0.01)	PYRAZOSULFURON-ETHYL (0.01)	Pyridate (0.01)
Pyriproxyfen (0.01)		Pyroxulam (0.01)	Quinalphos (0.01)	Quinclorac (0.01)	Quinmerac (0.01)
Quizalofop ethyl (0.01)		Rimsulfuron (0.01)	Rotenone (0.01)	Secbumeton (0.01)	Sethoxydim (0.01)
Silthiofam (0.01)		Simazine (0.01)	S-Metolachlor (0.01)	Sodium propoxycarbazone (0.01)	Spinetoram (0.01)
Spinosad (0.01)		Spirotetramat (0.01)	Spiroxamine (0.01)	Sulcotrione (0.01)	Sulfentrazone (0.01)
Sulfosulfuron (0.01)		Tebuconazole (0.01)	Tebufenozide (0.01)	Tebuthiuron (0.01)	Teflubenzuron (0.01)
Tembotrione (0.01)		Temephos (0.01)	Tepraloxymid (0.01)	Tetraethyl pyrophosphate (0.01)	Thiabendazole (0.01)
Thiacloprid (0.01)		Thidiazuron (0.01)	Thifensulfuron methyl (0.01)	Thiencarb (0.01)	Thiodicarb (0.01)
Thiofanox (0.01)		Thiometon (0.01)	Thiophanate-methyl (0.01)	Tolfenpyrad (0.01)	Tolyfluanid (0.01)
TOPRAMEZONE (0.01)		Tralkoxydim (0.01)	Triadimefon (0.01)	Triadimenol (0.01)	Tri-allate (0.01)
Triasulfuron (0.01)		Triazophos (0.01)	Tribenuron-methyl (0.01)	Trichlorfon (0.01)	Triclopyr (0.01)
Tricyclazole (0.01)		Tridemorph (0.01)	Trietazine (0.01)	Trifloxystrobin (0.01)	Triflumuron (0.01)
Triflusaluron-methyl (0.01)		Triforine (0.01)	Trinexapac-ethyl (0.01)	TRITOSULFURON (0.01)	Uniconazole-P (0.01)
Vamidothion (0.01)					
<b>IR408</b>	<b>IR</b>	<b>Pesticides GC-MS/MS (LOQ* mg/kg)</b>			
2,4-DDD (0.01)		2,4-DDE (0.01)	2,4-DDT (0.01)	2,4-Dimethylaniline (0.01)	2-Phenylphenol (0.01)

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**IR408 IR Pesticides GC-MS/MS (LOQ\* mg/kg)**

3,4-dichloroaniline (0.01)	4,4 -DDT (0.01)	4,4-DDD (0.01)	4,4-DDE (0.01)	4-Bromo-2-Chlorophenol (0.01)
Acetochlor (0.01)	Acrinathrin (0.01)	Aldrin (0.01)	Allethrin (0.01)	alpha-HCH (0.01)
Amisulbrom (0.01)	Anthraquinone (0.01)	ARAMITE (0.01)	beta-HCH (0.01)	Bifenthrin (0.01)
Binapacryl (0.01)	Biphenyl (0.01)	Boscalid (0.01)	Bromophos-ethyl (0.01)	Bromopropylate (0.01)
Bromoxynil (0.01)	Bromuconazole (0.01)	Butralin (0.01)	Butylate (0.01)	Cadusaphos (0.01)
Captafol (0.01)	Captan (0.01)	Carpropamid (0.01)	Chlorbenside (0.01)	Chlordane (0.01)
Chlordecon (0.01)	Chlorfenapyr (0.01)	Chlorfenvinphos (0.01)	Chlorobenzilate (0.01)	Chlorothalonil (0.01)
Chlorpropham (0.01)	Chlorpyrifos (0.01)	Chlozolinate (0.01)	Clodinafop-propargyl (0.01)	Clomazone (0.01)
Coumaphos (0.01)	Cyflufenamid (0.01)	Cyfluthrin (0.01)	Cyhalofop-butyl (0.01)	Cyhalothrin, lambda-(incl. Cyhalothrin, gamma-) (0.01)
Cypermethrin (0.01)	Deltamethrin (0.01)	Diallate (0.01)	Dichlobenil (0.01)	Dichlorvos (0.01)
Dicloran (0.01)	Dicofol (0.01)	Dieldrin (0.01)	Diethofencarb (0.01)	Difenoconazole (0.01)
Diflufenican (0.01)	Dimethachlor (0.01)	Endosulfan alpha (0.01)	Endosulfan beta (0.01)	Endosulfan sulphate (0.01)
Endrin (0.01)	Epoxiconazole (0.01)	Esfenvalerate (0.01)	Ethoprophos (0.01)	Etofenprox (0.01)
Etoxazole (0.01)	Etridiazole (0.01)	Fenamidone (0.01)	Fenarimol (0.01)	Fenitrothion (0.01)
Fenoxycarb (0.01)	Fenpropathrin (0.01)	Fenpropidin (0.01)	Fenpropimorph (0.01)	Fipronil-sulfone (0.01)
Flucythrinate (0.01)	Flufenacet (0.01)	Fluquinconazole (0.01)	Flurochloridone (0.01)	Flusilazole (0.01)
Flutolanil (0.01)	Folpet (0.01)	Fonofos (0.01)	Formothion (0.01)	Fosthiazate (0.01)
Furathiocarb (0.01)	gamma-HCH (Lindane) (0.01)	Halfenprox (0.01)	HCH, delta- (0.01)	Heptachlor (0.01)
Heptachlor endo epoxide (0.01)	Heptachlor epoxide, cis- (0.01)	Heptachlor epoxide, trans- (0.01)	Hexachlorobenzene (HCB) (0.01)	Imazalil (0.01)
Indoxacarb (0.01)	Iprobenfos (0.01)	Isocarbofos (0.01)	Isoxaben (0.01)	Kresoxim-methyl (0.01)
Lenacil (0.01)	Mecarbam (0.01)	Mepanipyrin (0.01)	Mepronil (0.01)	Metazachlor (0.01)
Metconazole (0.01)	Methacriphos (0.01)	Methoprene (0.01)	Methoxychlor (0.01)	Metolachlor (0.01)
Metrafenone (0.01)	Metribuzin (0.01)	Mirex (0.01)	Molinate (0.01)	Myclobutanil (0.01)
Nitrofen (0.01)	Oxadiazon (0.01)	Oxadixyl (0.01)	Oxyfluorfen (0.01)	Paclobutrazol (0.01)
Parathion-ethyl (0.01)	Parathion-methyl (0.01)	Pentachloroaniline (0.01)	Pentachlorobenzene (0.01)	Permethrin (0.01)
Phenothrin (0.01)	Phenthoate (0.01)	Phosmet (0.01)	Picolinafen (0.01)	Piperonyl butoxide (0.01)
Pirimicarb (0.01)	Pirimiphos-ethyl (0.01)	Prochloraz (0.01)	Profenofos (0.01)	Propachlor (0.01)
Pyrethrins (0.01)	Pyridaben (0.01)	Pyrimethanil (0.01)	Quinoxifen (0.01)	Quintozene (0.01)
Resmethrin (0.01)	S 421 (0.01)	Spirodiclofen (0.01)	Spiromesifen (0.01)	tau-Fluvalinate (0.01)
Tebufenpyrad (0.01)	Tecnazene (0.01)	Tefluthrin (0.01)	Terbufos (0.01)	Terbutylazine (0.01)
Tetraconazole (0.01)	Tetradifon (0.01)	Tolclofos-methyl (0.01)	Transfluthrin (0.01)	Triflumizole (0.01)
Trifluralin (0.01)	Triticonazole (0.01)	Vinclozolin (0.01)	Zoxamide (0.01)	

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



**Mr Vara Prasad Babu A**

**Assistant Manager - Chemical**

LOQ = Limit of Quantification

MRL = Maximum Residue Level

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

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