

HOW SAFE ARE YOUR VEGGIES PROJECT

September, 2019

Twenty **Leafy vegetable (Spinach and Amaranthus) samples** were collected randomly in the month of September, 2019 from the market in the area of Uppal.

The samples were analyzed for pesticide residues using validated method with confirmatory analysis on GC-MS/MS and LC-MS/MS at 10 PPB (Parts per Billion) level.

Total Twenty (20) samples analysed and fourteen samples found contaminated with eleven pesticide residues (Table-1). Four samples (one Pesticide) found with pesticide above FSSAI MRLs.

Table-1: Details of pesticides detected in Leafy vegetable samples

Sl. No.	Collection Point	Sample code	Pesticides Detected	Recommended/ Non recommended	Residues (mg/kg)	FSSAI MRL (mg/kg)
1	Uppal	PR/201909/118	Acetamiprid	Not-Recommended	0.04	-
			Chlorpyrifos	Not-Recommended	0.56	0.2
			Profenofos	Not-Recommended	0.03	-
2	Uppal	PR/201909/119	Chlorpyrifos	Not-Recommended	0.60	0.2
			Hexaconazole	Not-Recommended	0.09	-
			Profenofos	Not-Recommended	0.04	-
3	Uppal	PR/201909/120	Acetamiprid	Not-Recommended	0.35	-
			Chlorantraniliprole	Not-Recommended	0.27	-
			Azoxystrobin	Not-Recommended	0.05	-
4	Uppal	PR/201909/121	Chlorantraniliprole	Not-Recommended	0.53	-
			Azoxystrobin	Not-Recommended	0.61	-
			Chlorpyrifos	Not-Recommended	0.84	0.2
5	Uppal	PR/201909/123	Chlorantraniliprole	Not-Recommended	0.54	-
			Azoxystrobin	Not-Recommended	0.05	-
			Tebuconazole	Not-Recommended	0.15	-
			Cypermethrin	Not-Recommended	0.16	-
6	Uppal	PR/201909/124	Chlorantraniliprole	Not-Recommended	1.58	-
			Azoxystrobin	Not-Recommended	1.16	-
			Chlorpyrifos	Not-Recommended	0.06	0.2
			Cypermethrin	Not-Recommended	16.45	-
7	Uppal	PR/201909/125	Imidacloprid	Not-Recommended	0.97	-
			Chlorantraniliprole	Not-Recommended	0.28	-
			Azoxystrobin	Not-Recommended	0.52	-
			Chlorpyrifos	Not-Recommended	0.43	0.2
8	Uppal	PR/201909/126	Chlorantraniliprole	Not-Recommended	0.63	-

			Azoxystrobin	Not-Recommended	0.62	-
9	Uppal	PR/201909/127	Azoxystrobin	Not-Recommended	0.12	-
10	Uppal	PR/201909/129	Imidacloprid	Not-Recommended	0.09	-
11	Uppal	PR/201909/130	Chlorantraniliprole	Not-Recommended	0.16	-
			Trifloxystrobin	Not-Recommended	0.16	-
12	Uppal	PR/201909/131	Acetamiprid	Not-Recommended	0.05	-
			Trifloxystrobin	Not-Recommended	0.07	-
13	Uppal	PR/201909/133	Bifenthrin	Not-Recommended	0.05	-
14	Uppal	PR/201909/137	Cypermethrin	Not-Recommended	0.52	-