



HOW SAFE ARE YOUR VEGGIES PROJECT
JANUARY, 2017
OKRA SAMPLES

Fifty Okra samples were collected randomly in the month of January, 2017 from the markets in the areas of, Shamshabad, Mehedipatnam, Gachibowli, Miyapur, Kothapet and Kishanbag. 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.

- Out of 50 samples, 34 samples were detected with pesticide residues presented in Table 1, and seven samples are above the FSSAI, MRL (Table 2).
- The residues of non-recommended pesticides such as Acephate, Azoxystrobin, Monocrotophos and Tebuconazole were detected in samples.
- Monocrotophos was banned for use on vegetables.

Table 1: Details of Pesticide Residues detected in Okra samples

Sl. No.	Name of the pesticide	Recommended / non-recommended	FSSAI MRL, mg/Kg	CODEX MRL, mg/Kg
1	Acephate	Non -recommended	NA	NA
2	Acetamiprid	Recommended	0.10	NA
3	Azoxystrobin	Non -recommended	NA	NA
4	Monocrotophos	Non -recommended	0.20	NA
5	Tebuconazole	Non -recommended	NA	NA
6	Thiamethoxam	Recommended	0.50	NA

*NA – Not available

Table 2: Details of Okra samples which are above MRL

Sl. No.	Sample Collection Point	Sample Name	Name of the pesticide	Residues, mg/Kg	FSSAI MRL, mg/Kg	CODEX MRL, mg/Kg
1.	Kothapet	Okra-37	Acetamiprid	0.89	0.10	NA
2.	Kothapet	Okra-38	Acetamiprid	0.16	0.10	NA
3.	Kothapet	Okra-39	Acetamiprid	0.23	0.10	NA
4.	Kothapet	Okra-40	Acetamiprid	0.19	0.10	NA
5.	Kothapet	Okra-41	Acetamiprid	0.47	0.10	NA
6.	Kothapet	Okra-42	Acetamiprid	0.35	0.10	NA
7.	Kothapet	Okra-43	Acetamiprid	0.33	0.10	NA

*NA – Not available

* All the vendors in Kothapet might have purchased the Okra from the same Farmer.