



HOW SAFE ARE YOUR VEGGIES PROJECT
FEBRUARY, 2017
OKRA SAMPLES

Fifty Okra samples were collected randomly in the month of February, 2017 from the markets in the areas of Shamshabad, Shaheennagar, Chandrayangutta, Saidabad and Rajendranagar. 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, 36 samples were detected with pesticide residues presented in Table 1, and three samples are above the FSSAI, MRL (Table 2).
- The residues of non-recommended pesticides such as Acephate, bifenthrin, Monocrotophos, oxyfluorfen and propargite 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	Bifenthrin	Non -recommended	NA	NA
4	Imidacloprid	Recommended		
5	Monocrotophos	Non -recommended	0.20	NA
6	Oxyfluorfen	Non -recommended	NA	NA
7	Propargite	Non -recommended	NA	NA
8	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.	Shamshabad	Okra-2	Acetamiprid	0.11	0.10	NA
2.	Shaheennagar	Okra-13	Acetamiprid	0.14	0.10	NA
3.	Shaheennagar	Okra-16	Acetamiprid	0.13	0.10	NA

*NA – Not available