

Utilization of guava by-product in broiler chicken feeds

❖ Processed guava fruit by-products are made up of seeds, peels, and fibrous tissue although they contain high bioactive substances.

❖ In Kenya there has been no recorded use of the guava by-product in the animal feed industry as guavas are minimally processed at the industrial levels.

❖ The by-products however, are nutritious and their inclusion in animal feeds is recommended to exploit the nutrients and reduce the animal feeds costs.

Nutrient composition of guava by-products

Parameter%	% Levels
Dry matter	88.51
Ash	3.1
Crude fiber	46.46
Crude protein	5.41
Ether extracts	6.32
Nitrogen free extracts	38.71



Guava by-products processing and utilization

outcomes

- Guava by-products have nutritional profiles that make them suitable as animal feeds for broilers, layers and pigs.
- Inclusion of up to 5% guava by-product in the feed formulations does not affect broiler chicken performance.
- Guava by-products inclusion in broiler feed does not affect the relative weights, the nutrient content and quality of the broiler meat.
- Processing of by-products offer an alternative form of utilization, minimize agricultural wastes and reduce costs of animal feeds.