

TABLE 3

*The chemical composition of a young and vegetative maize plant with fractions expressed on a dry weight basis*

Main fraction	Subfractions	Note
Nitrogenous compounds 23%	Amino acids 10%	Amino acid composition of zein ( <i>Handbook of Biological Data</i> , 1956)
	Proteins 87%	
Carbohydrates 56.5%	Nucleic acids 3%	
	Ribose 1%	
	Glucose 5%	
	Fructose 2%	
	Mannose 1%	
	Galactose 1%	
	Sucrose 5%	
	Cellulose 40%	
	Hemicellulose 40%	
	Pectin 5%	
Lipids 2.5%	Glyceroltripalmitate 12%	Composition of maize oil (Winton & Winton, 1950)
	Glyceroltristearate 3%	
	Glyceroltrioleate 47%	
	Glyceroltrilinolate 33%	
	Glyceroltrilinoleate 5%	
Lignin (nitrogen-free) 8%		Poly-coniferylalcohol, percentage based on Muller, Dijkhuis & Heida (1970)
Organic acids 5%	Oxalic acid 5%	
	Glyoxalic acid 5%	
	Oxalo-acetic acid 20%	
	Malic acid 10%	
	Citric acid 30%	
	Aconitic acid 30%	
Minerals 5%	Potassium 80%	
	Chloride 20%	

*Handbook of Biological Data* (1956) (W. S. Spector, ed.). Philadelphia: Saunders Company.

WINTON, A. L. & WINTON, K. B. (1950). *The structure and composition of foods*. New York: Wiley and Sons.

MULLER, F. M., DIJKHUIS, J. G. & HEIDA, S. (1970). *Agric. Res. Rep.* 736.