



**Journal**

**J. Biol. Chem.**  
**Environ. Sci., 2017,**  
**Vol. 12(3): 355-368**  
<http://biochemv.blogspot.com.eg/>

## **CHEMICAL COMPONENT OF BANANA (*MUSA SAPIENTUM* AND *MUSA CAVENDISH*) FRUIT PEEL.**

**Abdel Samad, A.\*; Nadia M, Abdel Moein,  
\*; Amal, H. Mahmoud,\*\* and Shaimaa,  
M.Hassan, \*\*.**

*\*Biochemistry Department, Faculty of Agriculture,  
Cairo University, Egypt.*

*\*\*Food Technology Research Institute, Agricultural  
Research Center, Giza, Egypt*

### **ABSTRACT**

The chemical composition of Banana (*Musa sapientum* and *Musa cavendish*) peel were studied. The proximate analysis was found to be 89.62 and 86.43 moisture and 12.48 and 7.65 crude protein and 3.86 and 14.05 total lipid and 18.5 and 12.26 ash, 14.61 and 16.36 crude fiber, 50.55 and 49.23 total available carbohydrate in peel of *Musa sapientum* and *Musa cavendish* ., respectively. The ash contained (mg/100g) 96.58 and 60.68 Mg and 137.69 and 81.71 Na and 0.75 and 1.48 Zn and 3.80 and 2.11 Fe and 102.25 and 43.12 Ca and 3804.73 and 2882.12 K in peel respectively., The phenolic compound contents (mg/100g) were determined of *Musa sapientum* and *Musa cavendish* peel, methanolic extract The results show the presence of pyrogallol (31.98 and 63.98) catechin (21.55 and 16.33), gallic (.58 and 3.22), vanillic (2.94 and 4.46) ellagic (5.57 and 1.48), protocatechuic (1.22 and 3.09) and Catechin (21.55 and 16.32) , E- Vanillic (19.6 and 7.23) Salicylic (25.53 and 1.13) , respectively.

**Key words:** antioxidant, HPLC, *Musa Cavendish*, *Musa sapientum* and proximate analysis.