

**Title** Effect of ripening on total polyphenol contents of *Musa* hybrids and cultivars grown in Cameroon

**Author** G.N. Newilah, P. Brat, K. Tomekpe, P. Alter, E. Fokou and F.X. Etoa

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#### **Abstract**

Bananas and plantains (spp.) are staple food crops in southern provinces of Cameroon and surrounding countries, where they play a significant role in the diet of the population. To enhance the valorization of some cultivars and the creation as well as the selection of new hybrids in CARBAP, the total polyphenol contents of 32 cultivars and hybrids from the CARBAP germplasm were determined at three ripening stages. The total polyphenol compounds of dried pulverized pulps were determined at 760 nm using an optimized Folin-Ciocalteu method. The results showed significant differences between types according to their genotype. During the ripening process, the concentrations of phenolic compounds varied significantly. The high total polyphenol contents could contribute to their valorization in Cameroon and the sub-region as well as enhancing their uses in breeding programmes in CARBAP and other research institutes.