

A SCREENING FOR NATURAL COLORANTS IN THE ZONGO VALLEY WITH PROBABLE ANTIOXIDANT AND/OR PHOTO-PROTECTOR ACTIVITIES

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ABSTRACT

Eleven plants were collected in the Zongo Valley following an organoleptic and chimio-taxonomic criteria of collection to find species with colorant and photo-protector properties. *Brachyotum microdon*, *Monnina bridgesii* and *Souroubea fragilis* present promising colorant attributes. In addition, *B. microdon*, *Rumex acetosella* and *Fuchsia boliviana* show important absorptions in the UV-B region while *S. fragilis*, *Orthaea boliviensis*, *Senecio floccosus* and *Baccharis pentlandii* have UV-A and UV-B absorptions. A series of phytochemical tests were performed to learn about the secondary metabolite profile in the collected species. This is the first work done and published for *Souroubea fragilis*, *Orthaea boliviensis* and *Senecio floccosus*.

Keywords: Zongo Valley, Photo-protector Properties, UV Absorption, Phytochemical Assays, Colorants, *Brachyotum Microdon*, *Monnina Bridgesii*, *Orthaea Boliviensis*, *Senecio Floccosus* and *Souroubea Fragilis*.