SCARLET CREAM OBTAINED FROM THE EXTRACT OF *Mutisia acuminata* "Chinchicroma"

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**INTRODUCTION**

The species *Mutisia acuminata*, native from Ayacucho-Peru, is popularly used in the treatment of gastric ulcers and is credited with a healing effect.

**MATERIAL AND METHODS**

The plant species was collected in the city of Puquio, Lucanas, department of Ayacucho. An ethanolic extract was obtained by maceration of the aerial parts. Phytochemical screening was performed to identify secondary metabolites. The solubility of the extract was evaluated with solvents such as distilled water, vegetable oil, glycerin, propylene glycol, ethanol and liquid petrolatum. The antioxidant activity by the method of inhibition against the free radical 2,2'-Diphenyl-1-pyrrylhydraizil (DPPH). Two formulations F-1 and F-2 were developed by the fusion method, using concentrations of 10% and 15%. To the extract and the cream the organoleptic and physical characteristics were determined. The healing activity of the extract was evaluated by the Vaisberg and Col technique, using Dermafar® as a positive control. The extract presented alkaloids, steroids, amino acids and flavonoids. The antioxidant activity determined by the DPPH method presented IC50 of 1.22 mg / mL. The solubility was very good for propylene glycol. Formulation F-1 was accepted, due to the solubility and compatibility between the excipients and the extract. The organoleptic and physical characteristics of the extract were: dark green color, own odor, soluble solids 42%, total solids 85%, ashes 4.67%, pH 3.75; and the creams at 10 and 15%: sui generis odor in both cases, light green and dark green, uniform texture in the two creams, very good unctuousness, pH 4.6 and 4.5. The healing effect was: for the cream 10% 71.98%, 15% 46.05% and the positive control 71.85%.

**RESULTS**

The extract presented antioxidant activity determined by the DPPH method. The cream of *Mutisia acuminata* "Chinchicroma" at the concentration of 10% showed good organoleptic and physical characteristics. The healing activity of the cream at 10% was similar to the one obtained by the positive control.

**CONCLUSIONS**

1. The extract presented antioxidant activity determined by the DPPH method.
2. The cream of *Mutisia acuminata* "Chinchicroma" at the concentration of 10% showed good organoleptic and physical characteristics.
3. The healing activity of the cream at 10% was similar to the one obtained by the positive control.

**REFERENCES**