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Copy of Protocol for the production of crude alcoholic extracts from native plants

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Medicinal Plants Southe...



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Protocol status: Working

We use this protocol and it's working

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Abstract

This protocol describes the method to obtaining crude alcoholic extracts from plant organs, such leaves and inflorescences. The used plants were the popularly called "João Brandinho" *Piper Callosum* and "Jambu" *Spilanthes acmella*. The crude extracts were used in our laboratory to anesthetize the native silver tetra fish *Ctenobrycon sp.* and Zebrafish *Danio rerio*, by immersion method.

Materials

MATERIALS

- ⊗ Distilled Water
- ⊗ 70% alcohol **Merck MilliporeSigma (Sigma-Aldrich) Catalog #793213**
- ⊗ Paper towels
- ⊗ Beaker
- ⊗ Fluted Qualitative Filter Paper Circles **Thermo Fisher Catalog #0979014G**
- ⊗ Wyllie Micro - te 650 Knife Mill
- ⊗ Analytical Balance
- ⊗ Amber glass
- ⊗ Tray
- ⊗ Glass funnel
- ⊗ crucible

- 1 Separate the leaves and inflorescences from plants with the help of scissors.



- 2 Rinse the material under running water and then with distilled water to remove debris.



- 3 Dry the material with paper towels to remove the excess of water.



- 4 Grind the leaves and flowers with a knife mill or blender and / or just cut with the help of scissors, in order to allow a better extraction of secondary compounds.



- 5 Weight the vegetable mass into an analytical balance and dilute in 70% alcohol.
- 6 After quantifying the vegetable mass, dilute and mash the crushed and / or cut material into 70% alcohol in the desired ratio, such as 1:1 (1 gram of vegetal material to 1 milliliter of 70% alcohol) until the thoroughly solution mix.



- 7 After maceration and dilution in 70% alcohol filter the obtained solution with the aid of filter paper in a beaker.



- 8 Identify the alcoholic crude extract and store in an amber glass in the refrigerator