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

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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

Troubleshooting

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