

# 34 – PSYCOTRIA VIRIDIS (RUIZ & PAV): LIGHT QUALITY ON CELL MASS FORMATION

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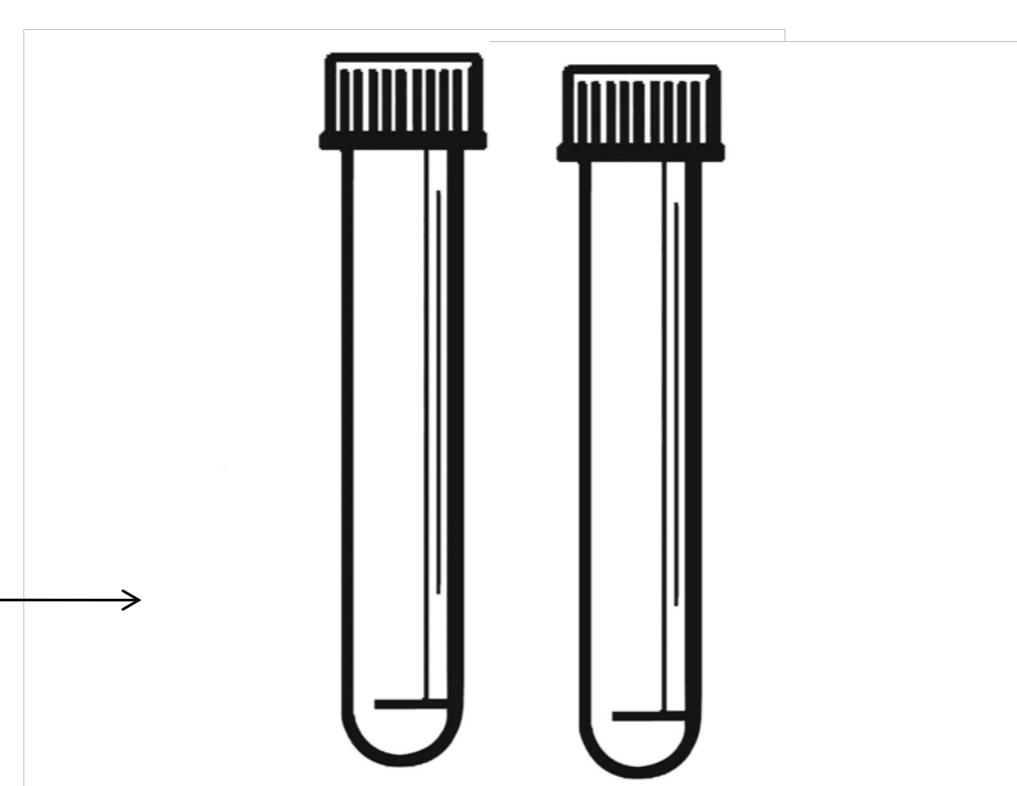
## INTRODUÇÃO

*Psychotria viridis* (Ruiz & Pav)

- amazonian shrub
- biologically active metabolites
- alkaloids and anthraquinones.
- great economic, social, and medicinal interest
- religious rituals
- hallucinogenic ayahuasca tea
- metabolites with potential antidepressant properties.

The aim of this study was to **analyze the callus formation** of *Psychotria viridis* established *in vitro* under different **light qualities**

## METODOLOGIA



Leaves explants      CBPP1 medium



CBPPLW, CBPPLB, CBPPLP, CBPPLR, CBPPLO, and CBPPLG.

Grow room 25°C  
Photoperiod – 16 hours  
45 days

After 7 days, contaminated samples were discarded, and the analysis of the calluses formation, oxidation and area was performed 45 days after inoculation. All parameters were tested with Tukey (5%) test.

## RESULTADOS E CONCLUSÕES

- Callus formation occurred in treatments with CBPPLB, CBPPLO, and CBPPLG light (Fig 1a,b,c).
- CBPPLB treatment had the greatest area and 0% of oxidation.
- CBPPLR light induced oxidation in 100% of the calluses and had no calluses formation, like the other treatments.
- *P. viridis* callus is influenced by the quality of light.

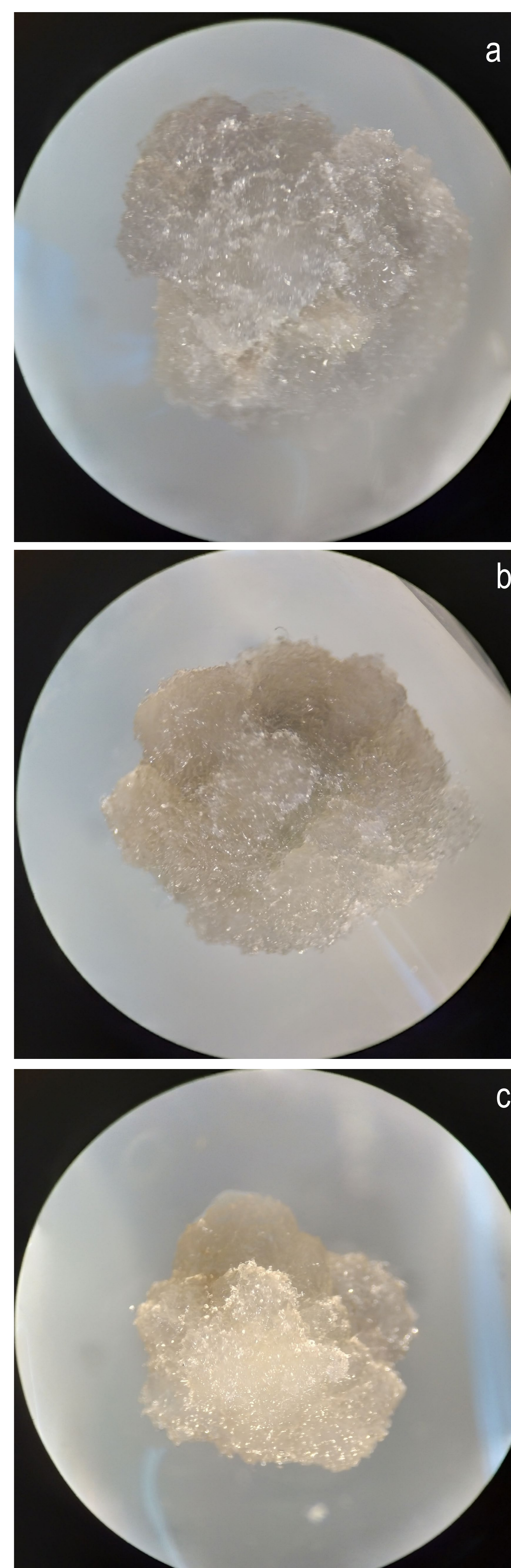


Fig1.: Visual aspect of a callus induced under influence of CBPPLB, CBPPLO, and CBPPLG. light.

## AGRADECIMENTOS

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