Title: Compatible solutes and metabolites accumulation does not explain partial desiccation tolerance in *Hymenoglossum cruentum* and *Hymenophyllum dentatum* (Hymenophyllaceae) two filmy ferns with contrasting vertical distribution

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Compatible solutes and metabolites accumulation does not explain partial desiccation tolerance in *Hymenoglossum cruentum* and *Hymenophyllum dentatum* (Hymenophyllaceae) two filmy ferns with contrasting vertical distribution

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Highlights

- Interspecific differences in filmy ferns *H. cruentum* and *H. dentatum* were studied.
- Vertical distribution and partial desiccation tolerance of these two filmy fern species was not associated with differential accumulation of compatible solutes.
- Results suggest that constitutive cell protection mechanisms, similar to those described for bryophytes operate in filmy ferns.