

Electronic Supplementary Information

Multielemental determination in sugarcane products from the Southern region of Brazil by microwave induced plasma optical emission spectrometry after acid decomposition with reflux system

**Maicon Renato Ferreira Sampaio^a, Meibel Teixeira Lisboa^b, Janaína Garcia Timm^b,
Anderson Schwingel Ribeiro^b, Mariana Antunes Vieira^{b*}, Deborah Murowaniecki Otero^c
and Rui Carlos Zambiasi^a**

^aPrograma de Pós-Graduação em Ciência e Tecnologia de Alimentos, Universidade Federal de Pelotas (UFPel), 96010-900 Capão do Leão-RS

*^bLaboratório de Metrologia Química (LabMeQui), Programa de Pós-graduação em Química, Universidade Federal de Pelotas (UFPel), 96010-900 Capão do Leão-RS, Brazil.
E-mail maryanavieira@hotmail.com*

^cUniversidade Federal da Bahia, Salvador, BA, Brasil – CEP 40110-970

Table S1. Physical and chemical parameters of sugarcane products (n = 3)

| Samples | Refined | Crystal | Demerara | Brown | “Rapadura” | Molasses |
|----------------|----------------|----------------|-----------------|--------------|-------------------|-----------------|
| Moisture (%) | 0.27 ± 0.02 | 0.06 ± 0.01 | 0.10 ± 0.01 | 1.94 ± 0.03 | 10.4 ± 0.1 | 27.7 ± 1.3 |
| Ashes (%) | 0.01 ± 0.01 | 0.01 ± 0.01 | 0.06 ± 0.01 | 0.46 ± 0.01 | 0.35 ± 0.02 | 0.55 ± 0.01 |
| pH | 6.02 ± 0.05 | 6.67 ± 0.01 | 6.79 ± 0.01 | 6.81 ± 0.01 | 4.90 ± 0.01 | 5.32 ± 0.01 |

Mean concentration ± standard deviation

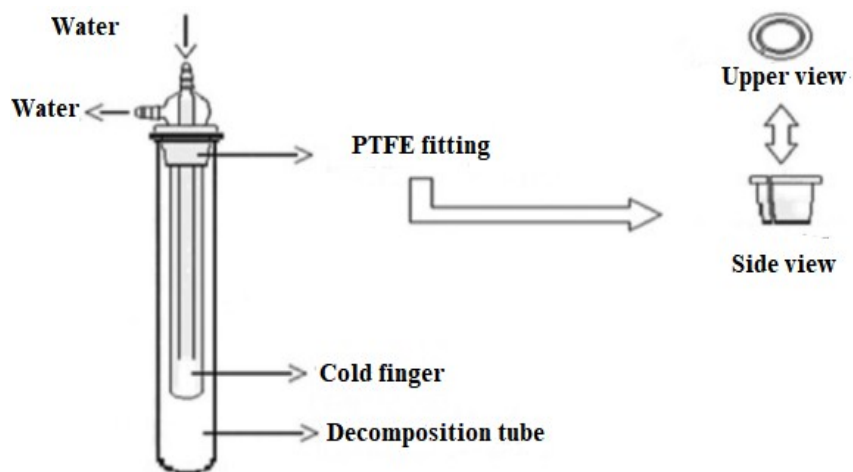


Figure S1. Schematic representative of the cold finger system with water circulation (adapted)^{1,2}

Notes and references

1. E. Q. Oreste, A. Jesus, R. M. Oliveira, M. M. Silva, M. A. Vieira and A. S. Ribeiro, *Microchem. J.*, 2013, **109**, 5.
2. A. C. A. Pinheiro, M. T. Lisboa, A. S. Ribeiro, A. M. Nunes and A. Yamasaki, *Quim. Nova*. 2014, **37**, 6.