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Mariana Achad^{a,b}, Sofía Caumo^c, Pérola de Castro Vasconcellos^c, Héctor Bajano^a, Darío Gómez^a and Patricia Smichowski^{a,b,*}

^a *Comisión Nacional de Energía Atómica. Gerencia Química, Av. Gral Paz 1499, B1650KNA-San Martín, Buenos Aires, Argentina.*

^b *Consejo Nacional de Investigaciones Científicas y Técnicas, Godoy Cruz 2290, C1425FQB-Buenos Aires, Argentina.*

^c *Instituto de Química, Universidade de São Paulo. Av. Lineu Prestes, 748, São Paulo, CEP 05508-000, Brazil.*

Corresponding author: P. Smichowski. E-mail: smichows@cnea.gov.ar; Fax: +54 11 6772 7886; Tel: +54 11 6772 7873

ABSTRACT

A study concerning the identification and quantification of key chemical markers of biomass burning namely, levoglucosan and potassium in size-fractionated airborne particulate matter was conducted. To perform a complete characterization of PM_{2.5} and PM₁₀ samples collected in Buenos Aires, Argentina black carbon, metals and metalloids were also determined. Due to the particularly complex chemical composition of atmospheric aerosols several analytical techniques were employed. Levoglucosan was extracted from filters and determined by gas chromatography-mass spectrometry

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