

Supplementary Information

A Low-Cost Portable Microcontrolled Nephelometer for Potassium Determination

Vagner B. dos Santos,^a Thiago B. Guerreiro,^a Willian T. Suarez,^b
Ronaldo C. Faria^a and Orlando Fatibello-Filho^{*a}

^aDepartamento de Química, Universidade Federal de São Carlos, Centro de Ciências Exatas e de Tecnologia, CP 676, 13560-970 São Carlos-SP, Brazil

^bDepartamento de Química, Universidade Federal de Viçosa, Centro de Ciências Exatas e Tecnológicas, 36570-000 Viçosa-MG, Brazil

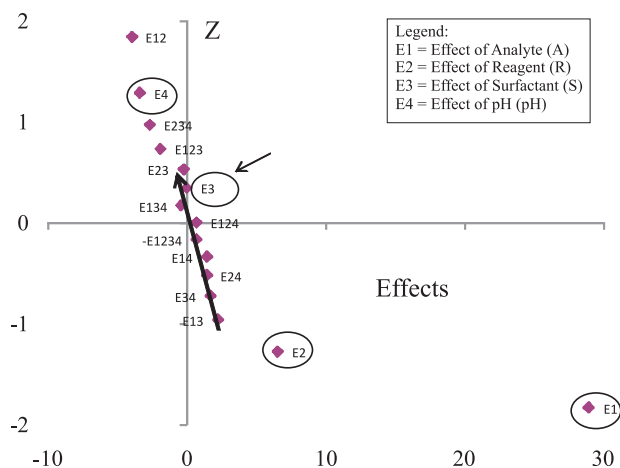


Figure S1. Graphic of the effects to factorial design (2^4) with replicates at the central point ($n = 3$). Legend: E1, E2, E3, and E4 are, respectively, the effect of variable 1; analyte (A); 2 reagent (R); 3 surfactant (S) and effect of variable 4, pH solution (pH). Combinations of the effects have also been shown.

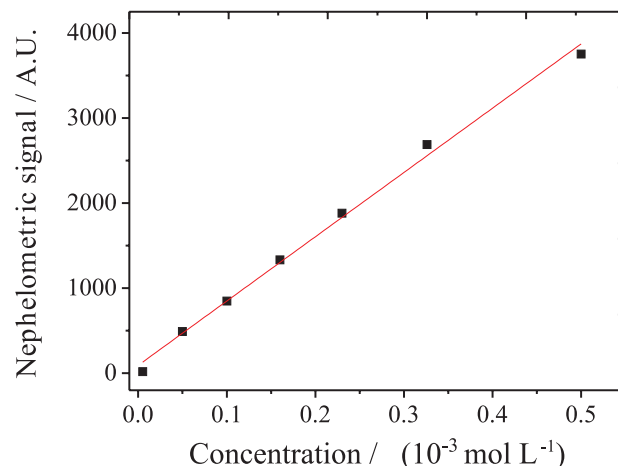


Figure S2. Analytical curve for potassium determination employing the developed PMN. The nephelometric signal was recorded in arbitrary units (A.U.).