Supplementary information

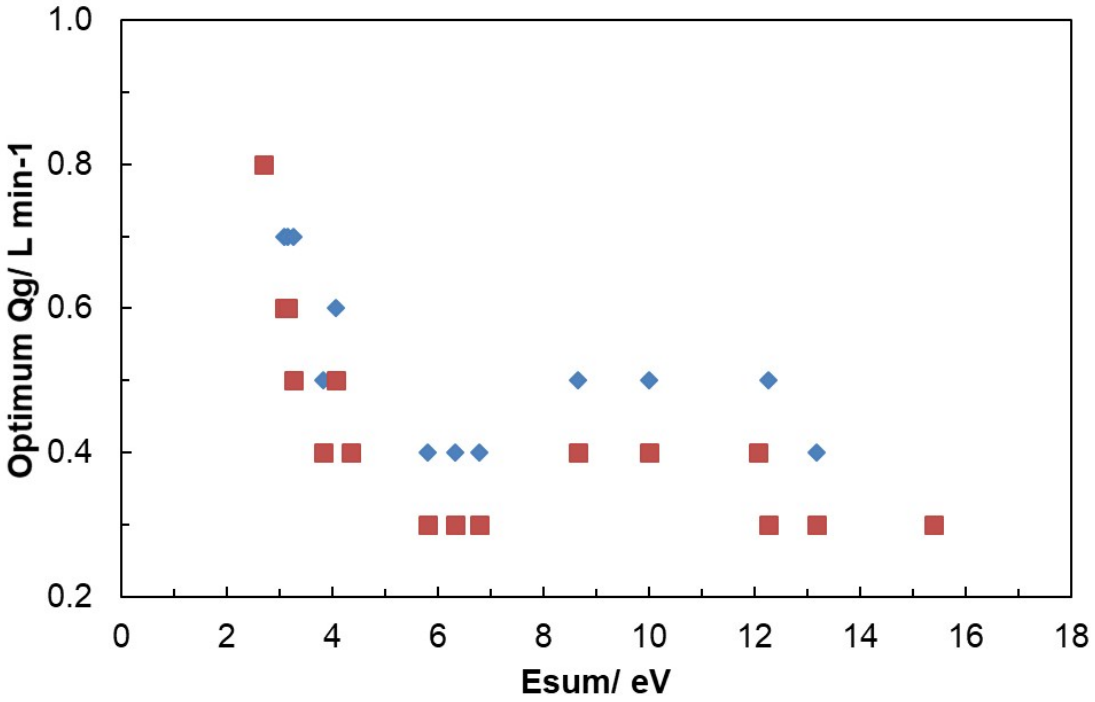

Figure S1. Optimum the nebulizer gas flow rate (Q_g) for emission lines of different E_{sum} operating (♦) 1.0% w w^{-1} nitric acid and, (■) 0.5% w w^{-1} calcium nitrate solutions in MIP-OES.

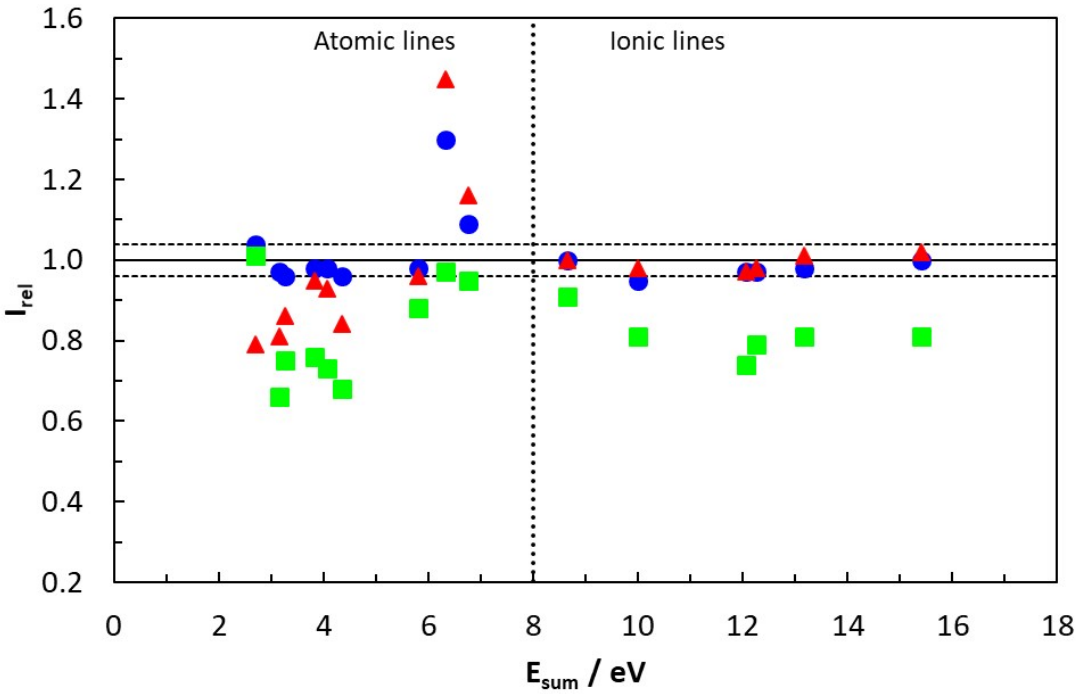

Figure S2. Influence of E_{sum} on the relative signal intensity (I_{rel}) obtained in ICP-OES operating 1400 W rf power for different emission lines operating (■) 0.5% w w^{-1} calcium nitrate; (□) 5% w w^{-1} glycerol; and (●) 5% w w^{-1} sulfuric acid solutions, in comparison to the corresponding 1.0% w w^{-1} nitric acid. Q_g 0.6 L min^{-1}. I_{rel} values in-between dashed lines indicate no matrix effects.

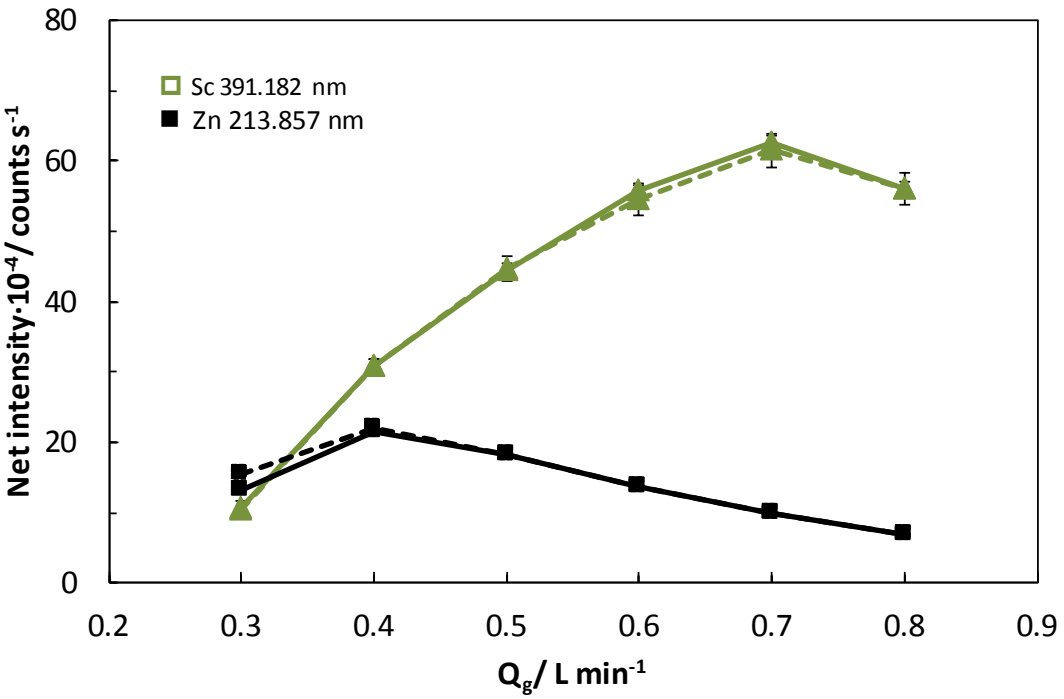

Figure S3. Influence of the nebulizer gas flow rate (Q_g) on the net emission signal obtained in MIP-OES for (□) Sc I 391.182 nm; and, (■) Zn 213.857 nm when operating a 5% w w^{-1} glycerol (dashed lines) and 1.0% w w^{-1} nitric acid (continuous lines) solutions.

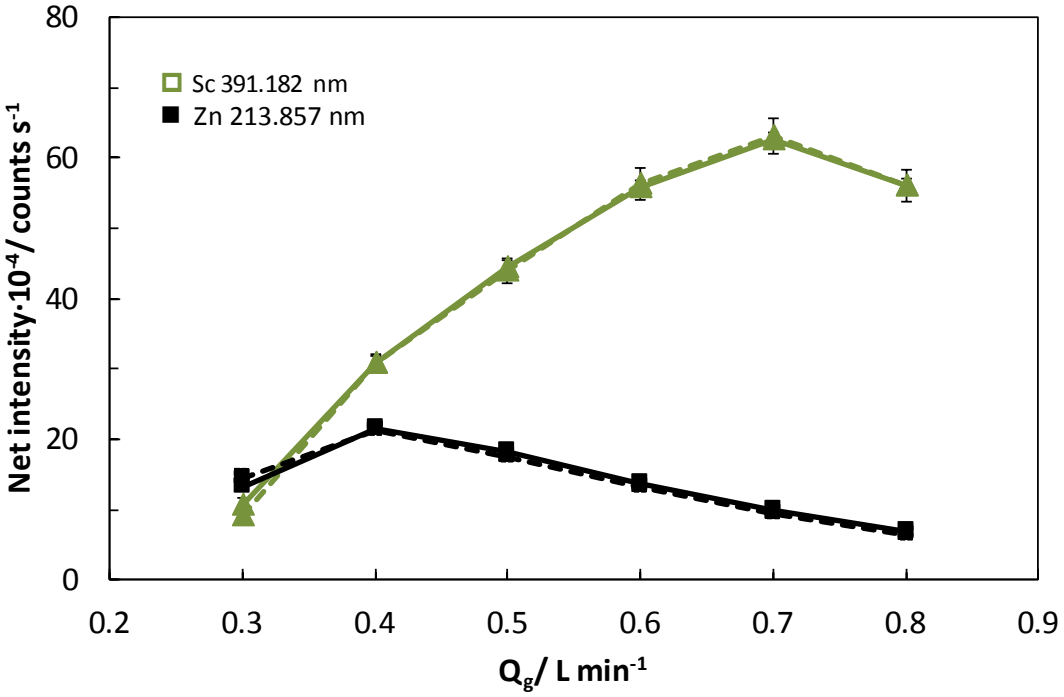

Figure S4. Influence of the nebulizer gas flow rate (Q_g) on the net emission signal obtained in MIP-OES for (□) Sc I 391.182 nm; and, (■) Zn 213.857 nm when operating a 5% w w^{-1} sulfuric acid (dashed lines) and 1.0% w w^{-1} nitric acid (continuous lines) solutions.