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Aim of the present work

This work aims to calibrate and optimize a procedure that can be used for the determination of chromium in rocks, minerals and some environmental samples using flame atomic absorption spectroscopy and spectrophotometric techniques. Quantitative analysis by atomic absorption method is an important aim in this study. Spectrophotometrically, two reagents namely dimethyl yellow and thymol blue are investigated for direct determination of chromium (VI). In this respect, pH, volume of buffer, reagent concentration, sequence of addition, time and temperature are optimized.

Optimizing of the working conditions and studying of the effect of diverse ions, these probably exist in digested sample solution.