Abstract
In this work ferrous sulfate heptahydrate was synthesized starting from steel chips and commercial sulphuric acid; obtain a product of great quality that fulfills the specifications of the USP XXIV as row material and like reagent for the pharmaceutical industry. A salt is obtained with 103 percent of ferrous sulfate heptahydrate. Insoluble metallic impurities are determined by inductive plasma coupling (ICP); the values of these elements are in similar concentrations as those marketed by the firms BDH of England and Merck of Germany, and the same ones are below the acceptable maximum concentrations so that they are considered toxic in pharmaceutical formulations.

Keywords
Ferrous sulfate. green vitriol, residual metallic, synthesis.