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Preparation of Ketamine Powder from Ketamine Hydrochloride and Study Their Physicochemical Properties

Abstract

The aim of the present study was extract pure ketamine powder from ketamine hydrochloride solution. Different concentrations of ketamine gel were prepared. Materials and methods: Ketamine powder was prepared from precipitation of ketamine hydrochloride solution and characterized by Infrared Spectroscopy (IR), Ultraviolet (UV), Micro elemental analysis (CHN) analysis, and measurement of melting point. Homogeneous gel from ketamine was prepared at (0.5, 1, 5, 10, and 15) % concentrations. The pH of the different concentrations of the ketamine gel also were measured. The results demonstrated that Ultraviolet (UV) spectra showed bands at 228, 268, 294 nm which confirm the groups in the ketamine structure. The CHN analysis showed that no difference between the theoretical calculated and practical percentage of the prepared ketamine powder. The pH ketamine gel measurement showed that there is no difference between pH in different concentration.