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## Der Pharmacia Lettre

### Abstract

[Characterization physic-chemical and rheological of sludge](#)

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The present paper is a characterization; physic-chemical, mineralogical and rheological of wastewater sludge. Physico-chemical characteristics were determined by the standard methods. Rheological parameters are obtained by fitting the experimental data of various shear rates  $\dot{\gamma}$  from 0 to 100 s<sup>-1</sup>, under a series of Total Suspended Solids content and constant temperature (20 ± 2°C). The rheometer used is an RS600. Physicochemical analysis and mineralogical watch the existence of heavy metals. The dolomite, turquoise and jadeite were identified by x-ray. The results obtained confirm the non-Newtonian behavior of sludge. The faithful model to describe its behavior is that of Ostwald- wael.

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