UNIVERSIDAD AUTÓNOMA DEL ESTADO DE HIDALGO

CENTRO DE INVESTIGACIONES QUÍMICAS

AREA ACADÉMICA DE QUÍMICA

Pachuca, Hidalgo. March 25 th., 2013

Editor of the *Acta Universitaria*

Dear Sir:

Enclosed herewith a manuscript submitted to be considered for publication in the *Journal Acta Universitaria*. The proposed article is entitled:

**CHARACTERIZATION OF "RED TEZONTLE", AN EXTENSIVE VOLCANIC ROCK IN MEXICO.**

AUTHORS: **Ponce Lira B; Ortiz Polo A; Otazo Sánchez EM; Reguera Ruiz E; Acevedo Sandoval OA; Prieto García F; González Ramírez CA.**

The manuscript has been reviewed by each author. All contributed comments to strengthen and enrich the investigation present.

The aim of this work was to evaluate the physical properties of a very common volcanic rock from the central plateau in Mexico. Red tezontle is very known and abundant in the country and it has extensive uses, mainly in landscape architecture and hydroponics. The samples were taken in Hidalgo State. We compare these results to previously reported data obtained from tezontle in Guanajuato State.

I resume the main important subjects and contributions of the present manuscript:

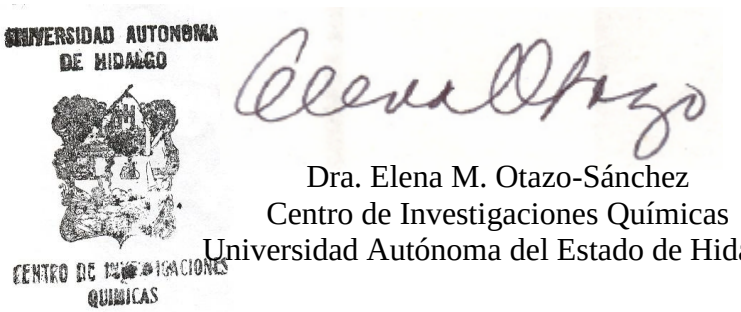
1. Despite its many uses and applications, there is only one previous study concerning the physical characteristics of tezontle. These are important for further geologic classification and possible application as material for environmental remediation.

2. We report the first diffractogram analysis of red tezontle, which allows a preliminary basis to establish its main components: albite, anorthite and quartz.
3. This work would be useful for geologists, environmental engineers, architects and constructors, including gardeners and farmers, for later applications of the mineral.

Because of the continuing interest of scientists in the development of new technologies based on cheap and abundant natural materials, we believe this paper will catch the attention of most readers. On the other hand, geologists and geophysics would be interested in this study, as it provides new sights about the components present in this volcanic rock, which allows to be compared to other igneous materials originated in different sites and conditions.

We would be very grateful if you consider this manuscript to be published in the *Acta Universitaria*. Thank you very much for your attention to this letter.

Yours, sincerely,

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