

filtered off hot. To the cooled filtrate, as much syrup and lime are added as will bring the amount of sugar and lime to the percentage present in the initial solution. This operation is repeated 20 to 25 times, whereupon lime only is added to the filtrates, in order to separate the sugar from the accumulated impurities.

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## MISCELLANEOUS.

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### PRIZE QUESTION

#### CONCERNING THE ACTION OF PHOSPHORIC ACID FERTILIZERS.

*From Biedermann's Centralblatt fuer Agricultur Chemie.*

Translated by BRUNO TERNE, Ph D.

An association of German manufacturers of fertilizers, has resolved to offer a prize of 1500 reichsmarks for the best, and 500 reichsmarks for the second best, solution of the following question, viz.:

To prove by numerous experiments, made under varying conditions, in pots, parcels of field and meadow land, and with due regard to previous experiments, the influence that phosphoric acid manures, with and without additions of potash and nitrogen, exert on the value of fodder plants (clover, grass, lupines, etc.), namely, on the increase of albuminous matter, starch, sugar and fat therein. It is also desirable, for the purpose of comparison, to include the *reverted* phosphoric acid, or the phosphate of lime soluble in citrate of ammonia, in the experiments.

The undersigned has, at the request of the association, consented to act as prize-juror, in conjunction with Prof. Dr. T. NESSLER, of Carlsruhe, and Prof. Dr. G. KUEHN, of Moeckern.

Papers for competition must be sent in before April 1st, 1881, sealed and signed with a motto. There should also be affixed, thereto, a sealed envelope containing the motto in question, and the name of the author.

Prof. Dr. F. NOLTE,

Editor of the "Landw. Versuchsstationen."

THARANDT, *December, 1879.*

The names of the firms belonging to the above-mentioned association, are:

H. & E. ALBERT, Bieberich, a. Rh.	VORSTER, Grueneberg, Kalk.
MICHEL & Co., Ludwigshafen.	J. C. ZIMMER, Mannheim.
MUELLER, PACKARD & Co., Wetzlar.	FERTILIZING Co., Kaiserslauten.