



Practical Agricultural Chemistry A Manual of Qualitative and Quantitative Analysis for Agricultural Students

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1907 Excerpt: ...in Milk.--Dissolve mercury in twice its weight of concentrated nitric acid, arfd dilute it twenty times with water (Wileys solution). Add 10 c.c. of this solution to an equal volume of the sample, shake, add 20 c.c. water, again shake, allow to stand for five minutes, and filter. The solution will be opalescent if much gelatine be present on the addition of a solution of picric acid a yellow precipitate will indicate the presence of gelatine. Detection of Boric Acid in Milk.--Evaporate 5 or 10 c.c. of the sample to dryness, and slowly char the residue moisten the ash with a few drops of concentrated sulphuric acid, and then add a little alcohol. Apply a light. The presence of boron compounds will be demonstrated by a greenish coloured flame. Estimation of Boric Acid in Milk.--Make 100 c.c. of the milk distinctly alkaline with caustic soda, evaporate the mixture and char the residue. Extract the charred mass with a little hot water, and add hydrochloric acid drop by drop until only carbon is left undissolved. Add 05 to 1 gramme dry calcium chloride. Add a few drops of phenolphthalein, and titrate with a 10 per cent, solution of caustic soda until a pink coloration is just attained. Add 25 c.c. lime-water make up to 100 c.c., shake well, and filter through a dry filter into a 50-c.c. flask. Titrate 50 c.c. of the filtrate with normal sulphuric acid until the pink colour disappears add a few drops of methyl orange, and more acid until the yellow changes to pink. Titrate back very carefully with quintinormal caustic soda until the yellow just reappears. Boil to expel carbon dioxide, cool, add at least 30 per cent, of glycerine, and finally titrate with quintinormal caustic soda. Each c.c. of soda used in the final titration equals 0-0124 gramme boric acid, ...

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