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LABORATORY NOTES ON THE DETERMINATION OF  
QUININE IN THE PRESENCE OF CERTAIN OTHER  
SUBSTANCES, AND ESPECIALLY IN "FERRI ET  
QUININÆ CITRAS.\*

BY ALFRED NEOBARD PALMER.

The chemist is often required to determine the quinine in pharmaceutical preparations wherein the alkaloid is associated with other substances—such as glycerin, sugar, citrate of ammonium, etc.—and it then becomes important for him to know whether the presence of the substances just named at all interferes with the accuracy of his determination of the quinine when that determination is effected by shaking up the fluid with ether or chloroform after the quinine has been precipitated with an alkali. Moreover, still following this method of analysis, it sometimes becomes necessary, in the case of certain cinchona preparations, to add considerable excess of the alkali, so as either to re-dissolve some of the substances other than quinine precipitated together with the latter, or to render the line of separation between the aqueous layer and the chloroformic or ethereal layer quite clear and well-defined. And here, again, the analyst desires to know whether, in the presence of this possibly large excess of alkali, he still gets in his chloroformic or ethereal layer all the quinine that exists in the fluid operated upon. I have at various times made experiments with a view of satisfying myself upon some of these points, and since the appearance of Mr. Allen's interesting paper† have continued these as well as made two or three additional ones on the determination of quinine with *chloroform* in presence of sugar, Mr. Allen having confined himself to its determination

\*From the Pharmaceutical Journal and Transactions.

†Pharmaceutical Journal, June 3rd, 1876, p. 964.