



Manufacturing Pharmacists.

Lloyd Brothers,

Wholesale Druggists,

Court & Plum Streets,

Cincinnati, O.

March 23rd, 1888

Mr. Walter Deane,
Cambridge, Mass.

Dear Deane: --

If you will take the trouble to carefully read the enclosed circulars you will find that we are somewhat interested in a certain professor who has the honor of being a resident of your city. We do not know him and the first we ever heard of him was an analysis of one of our preparations instituted by a rival manufacturing house which was boldly published in the medical journals. The analysis was incorrect and before attacking prof. Norton we wrote him a kindly letter giving him an opportunity to explain. His reply, which you will find pub-



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To Smokers Only No Others

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lished, referring us to his employers, needs no comment.

Do you know the party or anything regarding him? What is the Massachusetts Institute of Technology and what is its standing as a scientific institute? I would be very glad to hear, if you would obtain a copy of the Announcement of the Institute and mail it to me so that we can obtain the names of the different professors and managers of the Institute so that we can keep them posted regarding the proofs that we propose to publish, that this analysis of prof. Norton is incorrect and that he refused to make a correction when application was made to him. The analysis from W. Simon



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is only one of a number we have from prominent chem-
 ist of this country, every one of them flatly
 contradicting Norton's analysis.

Please keep this matter confidential.

Your friend,

Lloyd.

Dictated.

From a Professor of "ORGANIC" Chemistry.

The following analysis was published in the E. M. Journal, for March, 1888:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,

BOSTON March 9th, 1887.

THE WM. S. MERRELL CHEMICAL CO.

Cincinnati, O.

GENTLEMEN:—I have carefully examined the solution called "*Lloyd's Hydrastis*," supposed to contain Hydrastin, the white alkaloid of Hydrastia. The sample examined was purchased from B. O. & G. C. Wilson, of Boston. The solution is a glycerine preparation. It contains Alumina and Magnesia, and traces of an organic base, which may be Hydrastin;—the quantity is too small for determination. The white precipitate caused by the addition of Ammonia-water to "*Lloyd's Hydrastis*" is a mixture of hydrate of Alumina and hydrate of Magnesia, and is not an alkaloid. A pint bottle of "*Lloyd's Hydrastis*" contained $19\frac{1}{4}$ grains of Alumina and $15\frac{3}{4}$ grains of Magnesia.

Yours very truly,

LEWIS M. NORTON,

[Professor of Organic Chemistry,
Massachusetts Institute of Technology.]

**THE ABOVE ANALYSIS WAS BOUGHT, AND HE RESPECTFULLY
REFERS ALL QUESTIONS TO THE PURCHASER.**

[COPY]

MASSACHUSETTS INSTITUTE OF TECHNOLOGY.

BOSTON, March 12th, 1888.

LLOYD BROTHERS,

Cincinnati.

GENTLEMEN:—In regard to all questions relating to the analysis of the sample of hydrastis mentioned by you in your letter of March 8, 1888, I must refer you to the Wm. S. Merrell Chemical Co. of your city, by whom I was employed to make the analysis.

Yours very truly,

LEWIS M. NORTON.

Read Analysis on reverse, OTHERS WILL FOLLOW.

Maryland College of Pharmacy.

W. SIMON, PH. D.,

Professor of Chemistry.

Baltimore, March 20, 1888.

Messrs. LLOYD BROTHERS.

Gentlemen:

I have bought in the Baltimore market a bottle of "Lloyd's Hydrastis," and find upon examination that it gives with Mayer's solution an abundant quantity of a white curdy precipitate, which when further examined unmistakably proves to be of AN ALKALOIDAL NATURE, and contains NEITHER COMPOUNDS OF ALUMINUM NOR MAGNESIUM. If the compounds of the latter elements are eliminated from the liquid by precipitation, the filtrate gives the same abundant quantity of an ALKALOIDAL PRECIPITATE with the above mentioned or with other suitable reagents.

Very respectfully,

W. SIMON, Ph. D.

OTHER ANALYSES WILL FOLLOW.

LLOYD BROTHERS.

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[Professor of Organic Chemistry,
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Yours very truly,

LEWIS M. NORTON.

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THE MILK IN THE COCOANUT.

Some two and a half years ago we introduced a preparation under the name Lloyd's Hydrastis, which met with so much favor by the medical profession that it has displaced almost entirely other hydrastis preparations, and especially a certain glycerine and water solution has suffered, which formerly had an extensive sale. The manufacturers of this preparation have tried in vain to injure the sale of Lloyd's Hydrastis, and have through traveling men and otherwise circulated the story, first that "Lloyd's Hydrastis was simply a solution of the White Alkaloid," afterwards that "Lloyd's Hydrastis was merely a glycerine solution containing Alum." As long as these attacks were made in a vague way, we did not deign to reply, knowing that our patrons would consider the source and animus of the attacks.

In the March issue of the E. M. Journal of Cincinnati in the advertising pages appears an alleged analysis of Lloyd's Hydrastis, made by a reputable chemist, which we reproduce on the reverse. It is now time for us to act, and we propose to do so in a manner that will be both heard and felt. The challenge appearing on the reverse of this we have sent to the party publishing the alleged analysis. If it is not accepted, can we ask further vindication before the pharmacists of this country of the falsity of the charge?

WE ASSERT

That the published analysis is not correct.

That Lloyd's Hydrastis as found in original bottles is rich in the peculiar White Alkaloid of Hydrastis.

It only contains such constituents as are derived from Hydrastis root, and every pound sold has been manufactured from Hydrastis alone without the addition of any substance whatever, excepting the solvents.

We grant that it contains inorganic compounds, but they are derived from hydrastis root, and are necessary components of any preparation that represents the medicinal action of the drug.

When the process was discovered by us we submitted it in confidence to the Chairman of the United States Pharmacopœial Committee,

DR. CHAS. RICE of New York

Than whom there is perhaps none more eminent in scholarship. On the publication of this recent alleged analysis, he writes: "In the very beginning when Lloyd's Hydrastis was first put on the market, I was then fully aware what the preparation contained, so that the announcement now that it contains inorganic compounds is nothing new to me. I have known the whole process for several years, and Mr. Lloyd in his first communication showed that the presence of these compounds were an absolute necessity. My judgement tells me that Mr. Lloyd has acted honorably and honestly during all this period, reserving only that which could legitimately be classed under the head of business secrets, but placing everything else at the disposal of the public."

PROF. L. E. SAYRE,

(Professor of Pharmacy and Materia Medica, Dean of department of Pharmacy, Kansas State University, writes under recent date: "Mr. Lloyd submitted to me the process by which it was produced about the time the preparation appeared. I desire to state that the process is entirely different from any known, and gives a product different from that made by any other method printed. The inorganic salts that it contains are the result of manipulation and not admixture. They are obtained from hydrastis root, and these components are not present in any other preparation of the plant that is known to me."

Physicians and pharmacists who have honored us with their patronage and confidence, need have no fears but that we can demonstrate in any way necessary, that no misrepresentations have been made by us regarding the merits, constituents, or source of Lloyd's Hydrastis.

SEE OTHER SIDE.

LLOYD BROTHERS, Cincinnati, O.

ANALYSIS OF LLOYD'S HYDRASTIS.

In the March issue of the E. M. Journal of Cincinnati among other advertisements appears the following :

"I have carefully examined the solution called '*Lloyd's Hydrastis*,' supposed to contain Hydrastin, the white alkaloid of Hydrastia. The sample examined was purchased from B. O. & G. C. Wilson, of Boston. The solution is a glycerine preparation. It contains Alumina and Magnesia, and traces of an organic base, which may be Hydrastin;--the quantity is too small for determination. The white precipitate caused by the addition of Ammonia-water to '*Lloyd's Hydrastis*' is a mixture of hydrate of Alumina and hydrate of Magnesia, and is not an alkaloid. A pint bottle of '*Lloyd's Hydrastis*' contained 19½ grains of Alumina and 15½ grains of Magnesia."

With due respect to the talented professor, over whose signature the above appeared, we desire to say that the alleged analysis of Lloyd's Hydrastis (if it was made) produced results that are *far from facts* and we are prepared to defend the statement by a substantial forfeit.

We have sent by registered mail on March 7th, 1888 to the party publishing this analysis the following letter :

(COPY.)

We have placed a certified check for \$3,000 with the National La Fayette Bank of this city, and we propose to wager this amount, that we can substantiate the following propositions :

\$1,000 that the alleged analysis of Lloyd's Hydrastis published in the E. M. Journal for March, 1888, DOES NOT represent the constituents of Lloyd's Hydrastis, either organic or inorganic, as it is found in the market in original bottles.

\$1,000 that Aluminum and Magnesium compounds are contained in the roots of Hydrastis Canadensis of commerce, and that these substances are derived by our process from the hydrastis, and are only part of the components of the preparation.

\$1,000 that Lloyd's Hydrastis as manufactured by us, contains an ABUNDANCE of the white alkaloid of Hydrastis.

We do not propose to sell the process for making Lloyd's Hydrastis, and this wager is on condition that it be decided by three prominent pharmacists of national reputation, who will pledge themselves that the process as demonstrated to them will be held confidential.

Any of the following will be accepted, one of the number to be selected by us, one by you, and the third by these two :

John M. Maisch, Philadelphia, Pa., Editor of Journal of Pharmacy; Chas. Rice, New York, Editor of American Druggist; Chas. Mohr, Mobile, Ala.; S. A. D. Sheppard, Treasurer of A. P. A.; Prof. C. Lewis Diehl, College of Pharmacy, Louisville, Ky.; Prof. L. E. Sayre, University of Kan.; Prof. Henry Trimble, Philadelphia College of Pharmacy, Philadelphia, Pa.; Roberts Bartholow, M. D., Philadelphia, Pa.; Prof. Jos. R. Remington, Philadelphia, Pa.; E. A. Ebert, Chicago, Ill.; Prof. J. A. Jeancon, Cincinnati, Ohio; Geo. W. Sloan, Indianapolis, Ind.; Wm. Saunders, London, Ontario.

We defy you to assert that we have selected these gentlemen on the grounds that any of them would give an unfair decision.

Should you desire to accept this wager, you can place an equal amount with the National La Fayette Bank of this city, to be placed in the hands of the gentlemen selected to decide, the amount lost to be paid to the Children's Home of this city.

If we do not hear from you by the 12th of March, we shall conclude that you do not wish to accept, and we shall publish this fact to the world.

Yours truly,

SEE OTHER SIDE.

LLOYD BROTHERS.



Lloyd, C. G. 1888. "Lloyd, Curtis Gates Mar. 23, 1888." *Curtis Gates Lloyd letters to Walter Deane*

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