# CONTAINS MORPHINE.

# Stomach Contents

220 CC - 7 oz.

Received Jan. 4th. 11 A.M. One bottle marked "Stomach Contents, George Black, Thos. W. Jeffs Dept. Coroner. Jan. 3rd. 07. H.O.J." Sealed but writing on seal not distinct.

Mark on bottle - B. A.F.

Two separate portions were treated as follows:
1st. Portion treated with rectified spirits acidulated with

Acetic Acid and digested for a short time. The solu. was then

pressed through muslin and evaporated almost to dryness, taken

up with water and treated with Acetate of lead, warmed and filtered

the filtrate was then treated with H 2 S. gas, filtered, the filtrate

evaporated almost to dryness, taken up with alcohol, evaporated to

dryness and taken up with alcohol. and responded to all of the following tests:-

2nd. Portion was treated with Acetic Ether, filtered and evaporated to small bulk and solu. treated with Acetate of lead, filtered and filtrate treated with Sulphuretted Hydrogen gas, again filtered and evaporated to dryness with Potass Corbonate, taken up with alcohol, again evaporated and takenup with alcohol and responded to all of the following tests:

## Tests Used -

Nitric Acid produced a deep orange red color fading to on adding Ordunn Theoreephate yellow (difference from Quinine) 700 change (Brueine Chauses to veolet)

Iodic Acid and chloroform produced a pink color and on adding ammonia to this the pink color was discharged and the solution became of a dirty brown color (there is no albumnoid, nor alkaloid outside of Morphine known to Medical Science that will cause this reaction). - I dwp of lockie - Z dwps Chlowform

Potass Ferri Cyanide and neutral Ferric chloride produced a deep prussian blue color (difference from Codine)

Formaldehyde and Sulphuric Acid produced a deep purple color.

Sulpho Molyhdie Acid produced a crimson or purple color changing to a dingy green or x blue. - S graus Molybeic Buil conce the concept of the

Sulphuric Acid and Potassium Bi Chromate- produced in a short time a green color.

From a portion crystals were separated aut with Ammonia and on examination under the microscope were found to be identically the same as Morphine Crystals. on testing with

Nitric Acid produced a deep orange red color fading to yellow.

Potass Ferri Cyanide and neutral Ferric cloride produced a deep prussian blue color.

Iddic Acid and Chloroform produced a faint pink color turned faint brown on adding ammonia.

The lead Acetate percipitate from the first portion was treated with dilute Suphuric Acid and neutralized with Ammonia, the solution was treated with neutral Ferric Chloride - no change.

Sulphuric Acid added- still no change, absence of Meconic Acid.

The Lead Acetate precipitate from second portion was treated with Sulphuretted Hydrogen gas filtered and evaporated to expell the gas and tested with Ferric Chloride - no change. Added Sulphuric Acid still no change - absence of Meconic Acid.

Surphurse and and potas Bi chromats

He Soy prochies no change or only a

faint purk colowi

Supho. It obly belie buil - Marcotine gines a green changing to day Brown - moison,

Conhabi beid - 21 mg. Biown color changing to green their blue

Fizelo: purple colon-

# CONTAINS MORPHINE

Received Jan. 4th. 11 A.M. One jar marked "Stomach, George Black, Thos. W. Jeffs Dep. Corn. Jan. 3rd. 07"

Sealed but writting on seal not distinct.

Stomach was cut in half and one half was treated with Rectified spirits and Acetate Ether filtered and evaporated to small bulk. Lead Acetate added, percipitate filtered off. Sulphuretted Hydrogen passed through the solution to precititate exess of Lead Acetate filtered, evaporated to dryness, taken up with rectified spirits, again evaporated and taken up with rectified spirits and tested as follows:-

Tests used Iodic Acid and Chloroform produced a pink color
the solution changing to a dirty brown color on addition of Ammonia.

Nitric Acid produced a deep orange red color fading to yellow.

Potass Ferri Cyanide and neutral Ferric Chloride produced
a prussian blue color.

Lead Acetate precipitate dissolved in dilute Sulphuric Acid neutralized with Ammonia and tested with Neutral Ferric Chloride - no change. On adding Sulphuric Acid - no Change. Absence of Meconic Acid

### CHANPAGNE BOTTLES.

Received Jan. 6th. 2.45 p.m. and
Four Champagne bottles containing a few drop of liquid marked
"Found in the room of Eva McDaniels at 133 Harris St. Jan. 1st. 08.
J. & McL. No 1 No.11 No 111. No 1V. J.A.P.

Each bottle tested sparsall separately:-

No.1 J.A.P. White Seal - No Morphine A.

" 11 J.A.P. " " - " B.

" 111 J.A.P. G.H. Munn - " " C.

" 1V J.A.P. " " - Contains Morphine D.

Bottles washed with hot water and a few drops of Acetic Ether.

Tests Used

Lodic Acid and Chloroform produced a pink color, the solution changing to a dirty brown color on addition of Ammonia.

# (Lasses

#### Contain Morphine

Received Jan. 6th. 2.45 p.m.

Two empty glasses marked " found in the room of Eva McDaniel's at 133 Harris St. Jan 1st. 08. J.& McL."

Glasses washed with hot water collectively,

Tests used

Lodic Acid and Chloroform produced a pink color
the solution changing to a dirty brown on addition of Ammonia.

# TABLET IN ENVELOPE

# NO MORPHINE.

Received Jan. 13th. 08 4.45 p.m. marked "found under the bed of Eva McDaniels at 133 Harris St. Jan 3rd. 08."

ceptic.

Contains Bi-Chloride of Mercury probably used as anti-

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GEORGE BLACK.

mygram grain Brain

BRAINS .-

Received from Dr Poole on Han. 21st. 1908.

MORHHINE PRESENT

0.24 Grain

and Acetic Ether (50 cc) from Jan 21st. to March 3rd, on which day the solution was separated from the brain warmed for some time and filtered, the filtrate evaporated to a small bulk, treated with a solution of lead Acetate warmed and filtered, the excess of Lead Acetate added was perpercipitated by passing Sulphuretted Hydrogen gas through the solution the percipitated sulphide of lead was filtered off and the filtrate evaporated to dryness with the addition of a small quantity of Potass Carbonate (to render the Morphine addition) the residue taken up with rectified spirits again evaporated to dryness and again taken up with rectified spirits. The solution now is practically free from organic matter and the following tests were used-

yellow.

Iedic Acid produced a deep orange red color fading to

Ledic Acid and Chloroform produced a pink color on adding duty

Ammonia the supernatant watery solution acquired a brown color.

Potass Ferri-cyanide and neutral Ferric Chloride produced a deep prussian blue colour.

A separate portion of 290 ce of the solution was treated exactly as above and the crystals of morphine were separated out with ammonia. The crystals were treated with absolute alcohol to make certain of their purity, dried and weighted. These crystals were subjected to examination with the microscope and found to be similar to those shown in Fig. 19-20 page 189 - Taylor's (American) and on testing these crystals with

Nitric Acid produced a deep orange red color fading to yellow.

Iodic Acid & Chloroform produced a pink color the supernatant watery solution acquiring a brown color on addition of Ammonia.

Potass Ferri eyanide and neutral ferric chloride produced a deep prussion blue.

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CRYSTALS of Morphia were separated out from Morphine Sulphate under the same conditions and on examination with the miscropcope were found to be exactly the same as the crystals of Morphia separated from the Brain.

Analysis finished March 11th. 08.

Total Solution in Dessicator

450 cc

280 ce = 13/ grain

" Formaldehyde solution

200

Retire and Test:

Super Buthout

Aus orange red colour. warm till red

dus orange red colour. warm water

color turns to yellow. delute with a little worm water

and add gradinally a fush soly of Sochum Thusulphate

and add gradinally a fush soly (distriction from brucing)

the color does not change to motet (distriction from brucing)

Morphine is the chief poisonous alkaloid of opining from which it yields s to 20%

Morphine Crystalleges in fine white prisins

Surphurie oud and Potoes Bi Chromate, gins green color from the production of chromic ofich, and return its evolut for sometime. other alkaloids are not thus effected - marcotine is turned a bught yellow on adding Hz Soy, on adding Bi Chromate of potoes. it becomes green but rapidly becomes a dingy brown openin

Meconic aid in the top 30

Strychnine = Hz Sby + Kz Cr Oz = Blue theu quickly violet then red Hz Sby + Kz My Og = biolet colour Septrate tests whe made for Arsenie and Shy chaire - Arsenie : Remeles to Raw lieat was treated mucles same Conditions as Stomach Contents - results negative White Seal. Moet & Chandon: alcohol: 10.23% Bught
Whishy = 45% By weight

4.63 " Comporation tests were made along side of Cocleins evill not reduce Loclie and less trophias - (Blorena 757) Formaldely de does not interfere with tests Suysh Wolf betie æilt produes no change on Hydrate of Chloral Houphur Luphate was cystalys wich same Conditions as Brown Xes seste mis 215-20- per 185 59 200 et6

• 0 1 lowains Une alkaloids generated during docay, and Closely resembling the vegetable alkaloids. not only in their physiological effect, but also in their chemical reaction. Live ptomans present in general The Cading properties, physical and chemical of the regetable alkaloids with as resatine. Morphius a Codein, they may reachly be Confounded will these. The propos mod of distinguishing between the two classes of Lodies es to detonum all the chief Chemen and physical properties of the worlated back and to compose these with those of the

regetable alkalids. Whose presence is suggested

Albaloid: a nitrogenyed outsturer
of resetable órigin, possessing in
come degre the properties of au
albali

TO .

Albumnoid: a Thick glain substance which
forms a constituent principal of plants
and annials. and exists nearly pure
in the white of an egg and in the
serum of the blood

Albaloid. = The name of a group of organa bodies that posses alkaling properhis

They are Characterised by the property of combining with aids to form Latts and to any have the power of giving and alkalius reactions with regetable colours all the natural alkaloids Containe ritioque as an essential constituent, and one especially marked by prosessing great Medicinal, propertito

MORPHINE IN BRAIN.

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Page 1.

lst. Portion was treated with rectified spirits acidulated with Acetic Ether (this dissolves any Morphine present also a small quantity of albumnoids) the solution was then pressed through muslin (to separate the course organic matter) and evaporated almost to dryness, taken up with water and treated with a solution of Acetate of Lead (the precipitates albumnoid and any Meconic Acid present) warmed and filtered, the filtrate was treated with H.2 S. gas (to precipitate excess of lead also albumnoids) filtered, the filtrate evaporated almost to dryness (this renders any albumnoid present practically insoluble) taken up with rectified spirits (this dissolves out the Morphine) again evaporated to dryness and taken up with rectified spirits and tested.

2nd. portion was treated as above with alcohol and Acetic Ether, filtered, evaporated, treated with H.2 S. gas, precipitate filtered, the H.2 S. gas boiled off and the solution evaporated to dryness with potassium carbonate (this renders the Morphine more soluble if possible) taken up with alcohol, again evaporated to dryness and taken up with alcohol and tested.

Tests used:-

Nitric Acid produces a deep orange red color changing to yellow, on adding sodium Theosulphate, no change (Brucine changes to violet).

on adding ammonia to this the pink color was discharged and the solution became of a dirty brown color (A.S.Taylor Twelfth American Edition by Clark Bell page 190 - on adding Ammonia the pink color is discharges and the solution aquired a deep brown color. This reation distinguishes Morphine from all other Abbarraids and from other bodies such as the sulphocyanids (in saliva) which liberate iodine from Iodic Acid) Strength of Solution - 1 - of Iodic 2 of Chloroform.

ANTICEPTIC TABLET

Mercuric Chloride:-

Tests Used-

Lodium Hydrate gave a yellow precipitate.

Potass Iodide " " scärlet precipitate soluble in excess.

Staneous Chloride gave a white precipitate changing to gray.

RX

A POISON is a substance which when taken into the mouth or stomach or when absorbed w into the blood, is capable of effecting health, or of destroying life by its actions on the tissues with which it immediately on after absorbtion comes in contact.

### PTOMAINS

Ptomains reduce Iodic Acid and with Chloroform give the pink color as in Morphine, but on adding Ammonia the solution becomes clear when ptomains are present, whereas a deep brown color indicates the presence of Morphine.

Ptomains - give with Nitric Acid a yellow color.

Morphine " " " deep orange red color fading to yellow.

Ptomains with potass Ferri cyanide and Neutral Ferric

Chloride give the same reaction as for Morphine.

Morphier Ory stally es in heyakedial prisus which are white and perfect according to their degree of purity