

O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 113

PATENT MEDICINES AND HEADACHE POWDERS

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FEDERAL BUREAU OF INVESTIGATION

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PATENT MEDICINES AND HEADACHE POWDERS

OTTAWA, Ont., January 9, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit herewith a report addressed to me by Mr. A. McGill concerning certain samples of patent medicines and headache powders which were collected in accordance with your request. In addition to what Mr. McGill has said regarding these, I beg to offer the following remarks for your consideration :—

Peruna.—From the small percentage of total solids contained in this article, less than is found in ordinary rye or Scotch whiskey, it does not appear to belong to the class of patent medicines. The quantity of alcohol found in it (40 per cent proof spirit) is considerably higher than the strongest port wine and about two-thirds that of the ordinary grades of whiskey. It becomes a question as to whether it can be legally sold by druggists without a liquor license.

In the New Hampshire Sanitary Bulletin of the present month, it is stated that an order has been issued by the Commissioner of Internal Revenue, Treasury Department of the United States, requiring dealers in certain patent medicines to pay a revenue tax as liquor dealers. The following medicines are referred to in this ruling :

Atwood's La Grippe Specific.
 Cuban Gingeric.
 De Witt's Stomach Bitters.
 Dr. Bouvier's Buchu Gin.
 Dr. Fowler's Meat and Malt.
 Duffy's Malt Whisky.
 Gilbert's Rejuvenating Iron and Herb Juice.
 Hostetter's Stomach Bitters.
 Kudros
 Peruna.
 Rockandy Cough Cure.

These preparations contain so small an amount, if any, of effective drugs or medicines, and so large an amount of alcohol, as to make their use as intoxicants not uncommon.

Ozone.—Since this article contains a substance whose properties are the opposite of those indicated by the name, its sale would appear to be illegal under section 2 of the Adulteration Act, according to which a drug shall be deemed to be adulterated 'if its strength quality or purity falls below or differs from the professed standard under which it is sold or offered for sale.'

Extract of Sarsaparilla.—The foregoing quotation from the Adulteration Act seems also to apply to some of the samples sold under this name.

Headache Powders.—Although these cannot very well be classed as patent medicines, they are no doubt proprietary. It does not appear possible to prove adulteration in connection with any of them, but they seem to deserve the attention of the different Provincial Boards of Health. The course prescribed by section 34 of the Pharmacy Act of Ontario, as to the inspection and analysis of patent or proprietary medicines, would seem to be well fitted for application to some of these headache powders.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

OTTAWA, December 18, 1905.

THOS. MACFARLANE, Esq., F.R.S.C., &c.,
 Chief Analyst.

SIR,—I beg to hand you a report, dealing with the analyses of thirty samples of headache powders and similar preparations, and fifteen samples of patent medicines. These last were collected with a view to their examination for alcohol; but in addition to this determination, I have given the contents of iodide of potassium found in six (6) of them, and that of sulphurous acid, which is the most characteristic substance in so-called 'Ozone' (No. 26689) and 'Liquozone,' (No. 24897).

The quantity of iodide present in every case, much less than the minimum pharmacopoeial dose (5 to 10 grains).

With regard to the headache powders, I may say that quantitative estimation of the active drug (acetanilide-antifebrin or phenacetin) has, in every case, been attempted. Owing to the presence of interfering substances of very indefinite nature, such as ginger, liquorice, &c., these estimations are less exact than could be wished, but they have

demonstrated that acetanilide is present to the extent of about three grains in most of the powders containing it, while the amount of phenacetin present in the two (2) preparations containing it does not exceed five grains.

Of the three drugs which are recognized as having specific effect in relieving headache, and which have lately come into popular use for this purpose, acetanilide is not only prescribed in smallest doses by the British Pharmacopœia, but is much the lowest priced drug. The respective doses prescribed by the B.P., are as follows :

	Grains.
Acetanilide.....	1 to 3
Phenacetin	5 to 10
Phenazone	5 to 20

The prices at which these drugs are quoted by the vendors named, are as follows :

	Harrington Bros., 1905, per lb.	Evans & Sons, 1903.
Acetanilide	1 shilling,	\$0 50
Phenacetin	3s. 3d.	2 00
Phenazone	10s. 8d.	4 50

If there be any different degrees of toxicity in the use of these drugs, it remains for the medical fraternity to pass a verdict upon the matter. I may say, however, that the habitual use of any substance so potent in its physiological effects as acetanilide must be attended with danger to the person who uses it. It will be noted that in most cases the depressant effect upon the heart is sought to be counteracted by the addition of caffeine, bi-carbonate of soda or other drug of like character.

A large share of the work here recorded has been done by Mr. Lemoine.

I have the honor to be, sir,

Your obedient servant,

A. MCGILL.

MISCELLANEOUS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				8 cts.		
June 27	Peruna.....	26682	John T. Lyons, 6 Bleury St., Montreal	6 2 10 3 bottles	Peruna Medicine Co., Columbus, Ohio.	Lyman's Sons Co.
" 27	Ayer's Sarsaparilla	26683	" " "	2 25 3 bottles	D. J. C. Ayer & Co., Lowell, Mass.	
" 28	Bristol's Sarsaparilla.	26688	Dr. J. Leduc & Co., 2453 St. Catherine St., Montreal.	1 30 2 bottles	Langman & Kemp, New York.	
" 28	Ozone.....	26689	" " "	2 25 3 bottles	The Public Drug Co., Bridgeburg, Canada.	
" 28	Dr. Madison's Peruvian Tonic.	26693	Dr. J. G. Lavolette, 1605 Notre Dame St., Montreal.	2 25 3 bottles	The Madison Pharma- cal Co., New York City, U.S.A.	
" 22	Extract of Sarsa- parilla.	24895	J. D. Tully, 401 George St., Peterborough.	2 25 3 bottles	J. D. Tully, Peter- borough, Ont.	
" 22	Standard Sarsaparilla.	24896	John Nugent, 389 George St., Peter- borough.	2 40 3 bottles	The Canadian Pharma- cal Association, To- ronto.	
" 22	Liquozone.....	24897	H. H. Edmison, George St., Peterborough.	2 50 3 bottles	The Liquozone Co., Toronto, Can.	
" 22	Nyal's Celery Ner- vine.	24898	" " "	2 25 3 bottles	New York and London Drug Co., New York, U.S.A.	
" 22	Paine's Celery Com- pound.	24899	" " "	2 40 3 bottles	Wells, Richardson & Co., Burlington, Ver- mont.	
July 17	Massey's Sarsaparilla.	24890	G. D. Reid, 684 Queen St. West, Toronto.	2 10 3 bottles	D. Massey Laboratory Co., London, Eng., and Toronto, Can.	
" 17	Burdock Blood Bitters.	24891	J. R. Bond, 453 Yonge St., Toronto.	1 40 2 bottles	The T. Milburn Co., Toronto.	
" 17	Stringer's Nervine.	24892	" " "	3 60 3 bottles	Stringer Medical Co., 77 Victoria St., To- ronto.	
" 17	Dr. Hodder's Bur- dock and Sarsa- parilla Com- pound.	24893	" " "	1 50 3 bottles	Union Medicine Co., Toronto.	
" 17	Dr. Pierce's Favour- ite Prescription. Peruna.....	24894 Spec'l	D. L. Thompson, 394 Yonge St., Toronto.	3 60 3 bottles	World's Dispensary Medical Association, Proprs., Buffalo, N.Y.	

DRUG SAMPLES.

RESULTS OF ANALYSIS.							Remarks.
Specific Gravity of Sample.	Specific Gravity of Distillate to equal Vol.	Alcohol Content.			Solids.		
		Weight.	Volume.	Proof Spirit.			
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
0.9752	.9740	18.08	22.18	38.87	0.44	Contains no iodide of potassium.	
1.0789	.9741	18.00	22.09	38.71	23.53	Contains 0.415 grms. potassium iodide per 100 cc. (= 1.81 grains per ounce).	
1.0537	.9903	5.69	7.09	12.43	14.49	Contains 0.282 grms. potassium iodide per 100 cc. (= 1.23 grains per ounce).	
1.0096	1.0000	None.	None.	None.	1.60	Contains no iodides; contains 0.1568 grms. sulphurous acid per 100 cc.	
0.9980	.9820	11.62	14.37	25.18	3.67	Contains 0.666 grms. potassium iodide per 100 cc. (= 0.288 grains per ounce).	
1.1889	.9969	1.75	2.20	3.85	41.53	Contains no iodides although these are claimed to be present.	
1.0688	.9785	14.36	17.70	31.03	38.33	Contains 0.349 grms. iodide of potassium per 100 cc. (= 1.525 grains per ounce).	
1.0091	1.000	None.	None.	None.	1.51	Contains no iodides; contains 0.1728 grms. sulphurous acid per 100 cc.	
1.0455	.9821	11.54	14.27	25.01	15.57	Contains no iodides.	
1.0162	.9779	14.91	18.36	32.19	10.65	" "	
1.1775	.9960	2.28	2.86	5.01	39.18	Contains 0.398 grms. potassium iodide per 100 cc. (= 1.739 grains per ounce).	
1.0298	.9799	13.23	16.33	28.62	15.66	Contains no iodides.	
1.1309	.9987	0.68	0.86	1.51	25.08	" "	
1.0429	.9767	15.92	19.59	34.32	15.81	Contains 0.083 grms. potassium iodide per 100 cc. (= 0.363 grains per ounce).	
1.1041	1.0000	None.	None.	None.	40.83	Contains no iodides.	
0.9739	.9722	19.50	23.88	41.85	0.37		

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Montreal—J. J. Costigan, Inspector.</i>			\$ cts.		
June 27	Mathieu's Nervine Powders.	26680	John T. Lyons, 6 Bleury St., Montreal.	0 75 (3 pkgs.)	Mathieu's Nervine Powders for headache and neuralgia; contains no opium, morphine or chloral. One powder will relieve and a few powders will cure you. If you have a bad headache; if you are feverish; if you do not sleep well; if you are nervous; if you have la grippe; if you suffer from neuralgia. These powders are very good for children cutting their teeth.
" 27	Cachets du Dr. F. J. Demers.	26681	Dr. E. J. Demers, Montreal.	0 54 (3 boxes)	Depot: 1157 Rue St. Laurent, Montreal.	Cachets du Dr. F. J. Demers, contre le mal de tête—a sure cure for headache. Guérison prompte et certaine des névralgies et de tous maux de tête nerveux ou bilieux; ce cachet est inoffensif et supérieur à tous les autres. Dépôt, 1157 rue St. Laurent, Montreal.
" 28	Orangeine	26684	J. E. Tremble, 2480 St. Catherine St., Montreal.	0 75 (3 boxes)	Orangeine Chemical Co., 15 Michigan Av., Chicago	Orangeine cures congestive headache, nervous headache, neuralgia, sciatica, sick headache, hemicrania, painful menstruation, la grippe, rheumatism, etc.
" 28	Lyman's Headache Wafers.	26685	" "	0 75 (3 boxes)	Lyman, Sons & Co., Montreal.	Lyman's Headache Wafers, a positive cure for sick and bilious headache and neuralgia: price 25c. a box; manufactured by Lyman, Sons & Co., Montreal, established 1800.

AND SIMILAR PREPARATIONS.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grms.	Grms.						
Directions—One powder every 3 hours; however, the dose can be repeated after one hour if not relieved; for children, 1 to 2 years old, divide 1 powder in 12; 3 to 4 years, divide 1 powder in 8; 5 to 10 years, divide 1 powder in 4, 10 to 15 years, divide one powder in 2. How to take them: place a powder on the tongue and drink a little water after. 25c. per box.	8.5	0.55	Present.	None...	None...	Do'tful	Present.	
Directions—Soft en the wafer by placing it for a moment in a little water, then swallow with a drink of water; if relief is not obtained, a second wafer may be taken half an hour or an hour later, but more than two wafers should not be taken in succession; the wafers should be taken as early in the attack as possible.	10.0	0.65	"	" ...	" ...	Present.	"	
A grand rule of health; take an orangeine powder whenever chilled, exposed, overwrought, nervous or upset; all good prescriptions should be taken only according to carefully prepared directions, and to secure best results, you should never take more than six 'Orangeine' powders at regular intervals during the 24 hours.	5.0	0.32	"	" ...	" ...	"	"	An enclosure contains the following statements:—Composition—'Orangeine' contains in a harmless five-grain powder the following well-known remedies: podophyllin, versicolor iris, sodabiearb, acetanilid, nuxvomica and caffeine, so carefully balanced by years of human test as to leave no trace of drug effect from continued use. 'Maximum effect—minimum dose.'
Directions—Soft en the wafer by placing it for a moment in a little water, then swallow with a drink of water; if relief be not obtained, a second wafer may be taken half an hour or an hour later.	8.0	0.52	"	" ...	" ...	"	"	An enclosure contains the following: Contain neither morphine, antipyrine, bromide nor any other article which could injure the most delicate, they are therefore the best and safest remedy in all

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>Dist. of Montreal—J. J. Costigan, Insp.—Con</i>			\$ cts.		
June 28	Alpha Wafers. . . .	26686	J. H. Harte, 2450 St. Catherine St., Montreal.	0 60 (3 boxes)	W. J. Brown, Detroit, Mich.	W. J. Brown's Alpha Wafers, a guaranteed cure for headache & neuralgia, never fail if taken as directed. W. J. Brown, Detroit, Mich., and Windsor, Ont., for sale at all drug stores. Price 25 cents.
" 28	Raphael's Headache Wafers.	26687	Dr. J. Leduc & Co., 2453, St. Catherine St., Montreal.	0 50 (3 boxes)	Raphael Chemical Co., London, Paris and New York.	Raphael's Headache Wafers, Raphael Chemical Co., London, Paris and New York.
" 28	Lambly's Headache Cure.	26690	R. H. Bryson, 2391 St. Catherine St., Montreal	0 75 (3 boxes)	J. W. Lambly, Montreal,	Lambly's Headache Cure, warranted to cure headache, toothache, neuralgia, earache, pain in the back, bowels or stomach.
" 28	Campbell's Headache Wafers.	26691	Kenneth Campbell Co., St. Catherine St., Montreal.	0 75 (3 boxes)	Kenneth Campbell & Co., Montreal.	Campbell's Headache Wafers for the immediate relief of nervous, bilious or neuralgic headaches, Kenneth Campbell & Co., Montreal.
July 10	Nelson's Headache Cachets.	26692	Dr. J. G. Laviolette, 1605 Notre Dame St., Montreal.	0 75 (3 boxes)	Put up for vendor by the Toronto Pharmacal Co. (Vendor's statement).	Dr. Nelson's Headache Cachets Cure. Quick relief, Nelson Medical Co., New York and Montreal.
July 10	Albert's Headache Wafers.	26694	M. Albert, 169 St. Lawrence Street, Montreal.	0 75 (3 boxes)	Vendor.	Albert's Headache Wafers, immediate cure for headache and neuralgia, M. Albert, druggist, 169 St. Lawrence St., cor. Dorchester, Montreal.

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= ante- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grms.	Grms.						
Directions—To prepare the wafer, put it into a glass of water, leave there until it is perfectly soft, about 1 minute, place it in the mouth when soft, and swallow with a drink of water; see full directions inside.	6.5	0.42	Present.	None.	None.	Do'tful	Present.	cases of neuralgia and headache, whether arising from indigestion, biliousness or nervous troubles. Directions—Allow the cachet to remain in a teaspoonful of water till softened, which will require about $\frac{1}{2}$ to 1 minute, then place it in the mouth and swallow with a little water. If relief be not obtained, another wafer should be taken in about one hour; if any depression be felt, take a small glass of wine or whiskey.
Directions—Place the wafer in a glass of water till thoroughly softened and place in the mouth while soft, swallow with a little water; the wafer should be taken as early in the attack as possible. If relief is not obtained, repeat in an hour, then not for four hours.	9.5	0.62	"	" ...	" ...	Present.	"	
Dose—One powder every 2 to 8 hours; children one quarter to one-half of above quantity; to be taken in a little water, broth, etc. Prepared by J. W. Lambly, Montreal.	10.0	0.65	"	" ...	" ...	"	None...	The following note is printed on the box:— These powders contain no antipyrine, morphine, or any other injurious substance. Instead of acting as a depressant, they stimulate and strengthen the heart. They can be taken at any time with perfect safety, but act better when taken on an empty stomach.
Directions—After moistening it thoroughly, swallow a wafer with a wineglass full of water; it may be repeated in half an hour or an hour.	11.0	0.72	None...	Present.	" ...	"	Present.	
Directions—Place the cachet for a few moments in a glass of water until thoroughly softened, then swallow; another may be taken in an hour if the first has not given sufficient relief; a seidlitz powder frequently gives valuable assistance.	13.0	0.84	" ...	"	" ...	Do'tful	"	
Directions.—Soften the wafer by placing it for a moment in a little water, then swallow with a drink of water. If relief be not obtained, a second wafer may be taken half an hour or an hour later.	9.0	0.58	"	" ...	" ...	Present.	"	These wafers contain no injurious ingredients, and are warranted free from antipyrine, morphine, chloral or opium.

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Kingston—J. J. Costigan, Acting Inspector.</i>			\$ cts.		
June 22	Stearn's Headache Cure.	26582	W. W. Gibson, King St., Kingston.	0 60 (3 boxes)	Not known to vendor.	Stearn's Headache Cure.
" 22	Perfect Headache Powders.	26583	" "	0 30 (3 boxes)	Toronto Pharmaceutical Co., Ltd., Toronto, Montreal, Winnipeg.	Perfect Headache Powders.
" 22	Hedrite	26584	L.T. Best, Princess St., Kingston.	0 50 (2 boxes)	The Herald Remedy Co., Chicago; Montreal, Canada.	Cures headache; pleasant, harmless, speedy relief.
" 22	Bromo-Seltzer ..	26585	" "	0 30 (3 bot's.)		
" 22	Phenyo-Caffein ...	26586	" "	0 75 (3 boxes)	Phenyo-Caffein Co. Worcester, Mass., U.S.A.	Phenyo-Caffein, 25c. size. These anodine and nerve pills contain no opium, and are the most efficient remedy for sick and nervous headache and neuralgia, giving almost immediate relief. Inestimable in relieving rheumatism, lumbago, nervousness, sleeplessness, feverishness and colds.
" 22	Hoffman's Harmless Headache Powders.	26587	" "	0 75 (3 boxes)	Hoffman Drug Co., Bridgeburg, Ont. Can., New Rochelle, N.Y.	Hoffman's Harmless Headache Powders, a simple and effective cure for all headaches. We guaran-

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- line= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	g Gms.	0 Gms.						
Place the wafer in a glass of water until thoroughly softened (about one-half to one minute) and place it in the mouth while still soft; swallow with a drink of water. If relief is not obtained, repeat it in an hour, but it is not advisable to take more than two wafers in succession. The wafers should be taken as early in the attack as possible.	8.0	0.52	Present.	None.	None.	Do'tful	None.	These wafers contain no injurious narcotics and are warranted free from antipyrine, morphine, chloral or opium.
Take one powder dry on the tongue, or in a little water, and repeat in half an hour if not relieved. Take as early in the attack as possible. Do not repeat needlessly.	11.5	0.75	"	"	"	"	"	Are an instantaneous cure for sick or nervous headache and neuralgia. They promptly relieve sick stomach, exhausted nerves, mental strain, sleeplessness, worry and anxiety, and all forms of depression of spirits. Directions.—Take one powder in a little water, and repeat in half an hour if not relieved. Take as early in the attack as possible.
Place the lozenge on the tongue and swallow with a drink of water. The imprint in the middle of the lozenge makes it easy to break in two pieces, and is convenient for people who are troubled with enlarged tonsils. Take early in the attack.	10.5	0.68	"	"	"	"	Present.	
Dose.—Two or three pills; if these do not afford entire relief at end of one hour, take two more. Repeat above every 6 or 8 hours if necessary. Between ages of 5 and 10, half the above. These pills may be pulverized and taken in water, spirits or jelly.	4.0	0.26	"	"	"	Present.	"	They are much preferable to any opiate, as they are efficient and curative, without any unpleasant action on the stomach or nervous system. Continued use does not require an increase of the dose, nor does the system become habituated to them. We have never known of but one case in which more than eight of these pills were required during 24 hours, and that was an unusually severe case of dysmenorrhoea,
Directions.—Place a powder on the tongue and swallow with a draught of water, if not relieved in half an hour take	9.0	0.58	"	"	"	Do'tful	"	

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Kingston—J. J. Costigan, Acting Inspector—Continued.</i>			\$ cts.		tee these powders to contain no opium, quinine, bromides or narcotics, price 25c. For sale by all druggists or sent by mail on receipt of price. The Hoffman Drug Co., Bridgeburg, Ont., Can., New Rochelle, N.Y.
June 23	Standard Headache Powders.	26588	R. Templeton & Co., Belleville.	0 75 (3 boxes)	Canadian Pharmaceutical Association, Toronto.	Standard headache powders. A simple, harmless and almost instantaneous relief for headache from any cause; prepared by the Canadian Pharmaceutical Association, Toronto.
" 23	Miller's Headache and Grip Powders	26589	" ..	0 75 (3 boxes)	C. H. Gunn & Co., Chatham, Ont.	Miller's headache and grip powders; a quick cure for nervous headache, sick headache, neuralgic pains or pains from any cause; put up by C. H. Gunn & Co., Chatham, Ontario; Successors to E. Miller & Co., Dresden, Ont. Price 25 cents.
" 23	Templeton's Headache Wafers.	26590	" ..	0 75 (3 boxes)	R. Templeton & Co., Belleville, Ont.	Templeton's headache wafers; a safe and positive relief for all forms of nervous headache or neural-

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.							Remarks.
	Weight of Contents of one Powder.		Acetani- lide= ante- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine	Carbon- ate of Soda.	
	Grms.	C m	Present.	None...	None...	Doubt- ful.	None...	
another powder. Is not a cathartic.								when fifteen were taken, causing "com- plete relief." These pills contain no opium nor morphine. Usu- ally a dose of three, or not less than two, pills is to be taken, as the beneficial effect is more certain than from repeated smaller doses. A possible ex- ception to this rule is a case of very advanc- ed age or of great deb- ility, when one pill repeated every half hour till three are taken, sometimes an- swers best. Children can take proportion- ately larger doses than adults. One-fourth of a pill for a child one year old nearly always has a happy effect in allaying fever and pro- ducing sleep. If a second dose is requir- ed, it could be given at the expiration of one hour. These pills contain no cathartic medicines.
Directions—Place a pow- der on the tongue and swallow with a draught of water; if not rel- ieved in half an hour, take another powder; do not repeat again for four hours.	7·0	0·45						
Dose—Adults, 1 powder; 5 years, $\frac{1}{2}$ of a powder; 8 years, $\frac{1}{4}$ of a powder; 12 years, $\frac{1}{8}$ of a powder; repeated in one hour if necessary, and if after four hours all pain is not gone, repeat; one or two doses will arrest the worst case of sick headache, and will cure the most distressing attack of nervous head- ache.	6·0	0·39	"	" ...	" ...	"	" ...	
Directions regarding use— For ordinary headache arising from a disor- dered condition of the stomach, or from	16·0	1·04	"	" ...	" ...	Present.	" ...	

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Kingston—J. J. Costigan, Acting Inspector—Concluded.</i>			\$ cts.		
June 23	Zutoo Tablets	26591	F. C. Clark, Belleville.	0 75 (3 boxes)	B. N. Robinson & Co., Coaticook, Que.	gia; they are guaranteed to be absolutely free from morphine, opium, cocaine or drugs in the least way harmful; for additional description as well as directions regarding use, see circular accompanying each package; R. Templeton & Co., wholesale druggists Belleville, Ont.: in the treatment of sick or nervous headache, neuralgia, rheumatism or menstrual pains, these wafers will be found a most appropriate specific; for the relief of sleeplessness they are especially valuable.
	<i>District of Toronto—J. J. Costigan, Acting Inspector.</i>					
July 17	Standard Headache Powders.	24880	R. O. Snider, 133 Yonge St., Toronto.	0 75 (3 boxes)	Canadian Pharmaceutical Association, Toronto.	Zutoo tablets, Japanese headache cure. B.N. Robinson Co., Coaticook, Que., sole owners for Canada and United States. Price 25c. Zutoo tablets cure sick headache, bilious headache, nervous headache, neuralgia and car sickness; they break up a cold and give prompt relief to rheumatic pains; guaranteed not to affect the heart.
" 17	Headache Powders.	24881	" "	0 75 (3 boxes)	Put up specially for vendors by H.K. Wampole Co. (This statement made by vendor.)	This sample is identical with No. 26588. Headache powders; prepared by Medical Hall (R. O. Snider, prop.) 133 Yonge St., Toronto, Ont.

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.	Present.	None...	Doubt- ful.	Present.		Present.
biliousness, constipation, &c., one (1) wafer should be taken and repeated every three (3) hours if necessary; for neuralgia, rheumatic or menstrual pains, one (1) every two (2) or three (3) hours as required; for sleeplessness or nervousness, one (1) on retiring to be repeated in one (1) hour if sleep is not produced.								
Dose—Take two tablets and repeat in half an hour if not relieved by first dose; females and delicate persons will require only one tablet repeated as second dose (see special directions on inside circular).	4·0	0·26	"	"	"	"	"	
Directions—For head ache, one powder repeated in twenty or thirty minutes if necessary; for neuralgia, rheumatic pains, &c., one powder every two or three hours, as required; for sleeplessness and nervousness, one powder on retiring, to be repeated in one hour if sleep is not produced; taken in a little water they will lower the temperature and induce sleep; for sick	8·0	0·52	Present.	None...	Doubt- ful.	Present.	Present.	
							These powders have met with wonderful success and are certainly deserving of all praise. They are guaranteed absolutely free from opium, morphine, cocaine, and other similar narcotics and have proved their efficiency where such drugs as phenacetine and antipyrine have failed. For sick or nervous headache, neuralgia, rheumatic and menstrual pains these	

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Toronto—J. J. Costigan, Acting Inspector—Continued.</i>			8 cts.		
July 17	The Chemists' Headache Powders.	24882	R. O. Snider, 133 Yonge St., Toronto.	0 75 (3 boxes)	The Chemists' Co. of Canada, Ltd., Hamilton, Toronto and Winnipeg.	The Chemists' headache powders; harmless, pleasant to the taste, easily taken; these powders are an effective cure for headache and neuralgia. They are efficient and prompt in their action, without disturbing the stomach or nervous system.
" 17	Da Costa's Headache Wafers.	24883	"	0 75 (3 boxes)	Vendor	DaCosta's headache wafers; a safe and positive relief for all forms of nervous headache or neuralgia; they are guaranteed to be absolutely free from morphia, opium, cocaine or drugs in the least way harmful; prepared by Medical Hall (R. O. Snider, prop.) 133 Yonge St., Toronto, Ont.
" 17	The Chemists' Headache Powders.	24884	G. D. Reid, 684 Queen St. West, Toronto.	0 75 (3 boxes)	The Chemists' Co. of Canada, Ltd., Hamilton, Toronto and Winnipeg.	This sample is identical with No. 24882.
July 17	Bond's Headache Powders.	24885	J. R. Bond, 453 Yonge St., Toronto.	0 75 (3 boxes)	J. R. Bond, 453 Yonge St., Toronto.	Bond's headache powders. A positive cure for headache, neuralgia, etc.
" 17	Hoffman's Harmless Headache Powders.	24886	D. L. Thompson, 394 Yonge St., Toronto.	0 75 (3 boxes)	Hoffman Drug Co., Bridgeburg, Ont., & New Rochelle, N. Y.	This sample is identical with No. 26587.

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.						
and nervous headache and neuralgia, also a cure in cases of sudden cold with fever; directions inside.								
Directions—For adults, place the powder on the tongue and swallow with a draught of water; if not relieved in half an hour, take another powder; do not repeat again for four hours.	16·0	1·04	Present.	Present.	None...	Doubt- ful.	None... These powders do not contain any opium, morphia, quinine, bromide or any narcotic.	
Directions regarding use—For ordinary headache, arising from a disordered condition of the stomach or from biliousness, constipation, &c., one (1) wafer should be taken, and repeated in from twenty (20) to thirty (30) minutes if necessary; for neuralgia, rheumatic or menstrual pains, one (1) every two (2) or three (3) hours as required; for sleeplessness or nervousness, one (1) on retiring, to be repeated in one (1) hour if sleep is not produced.	20·0	1·30	"	" ...	" ...	Present.	"	
Directions—Place a powder on the tongue and swallow with a draught of water. If not relieved in half an hour take another. Price 25c. J. R. Bond, chemist and druggist, 453 Yonge St., opp. Bank of Commerce, Telephone North 350, Toronto.	9·5	0·62	None ..	Present.	None ..	Present.	None ..	

EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Toronto—J. J. Costigan, Acting Inspector—Concluded.</i>			8 cts.		
July 17	Goodman's Headache Powders.	24887	E. A. Goodman, 380 Yonge St., Toronto.	0 75 (3 boxes)	Vendor	Goodman's headache powders, safe, pleasant and effectual, giving almost instant relief; contains no dangerous drugs.
" 17	Dr. Weston's Headache Tablets.	24888	W. R. Hoar, 356 Yonge St., Toronto.	0 40 (3 boxes)	Dr. Weston Pill Co., 356 Yonge St., Toronto.	Dr. Weston's headache tablets.
" 17	Carter's Pleasant Headache Powders.	24889	H. W. Burgess, 278 Yonge St., Toronto.	0 50 (2½ bxs.)	Carter Drug Co., Toronto.	Carter's pleasant headache powders cure nervous or sick headache, headache arising from neuralgia, fatigue of body or mind, over-eating, alcohol or tobacco habit, etc. These powders are guaranteed to contain no opium, quinine, bromides or narcotics. Manufactured only by the Carter Drug Co., Toronto.

AND SIMILAR PREPARATIONS—*Concluded.*

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.						
Directions—Place a powder on the tongue, swallow with a draught of water, if not relieved in half an hour take another powder. Do not repeat again for 3 or 4 hours. For children $\frac{1}{4}$ to $\frac{1}{2}$ a powder. E. A. Goodman, chemist, 380 Yonge street, Toronto.	9.0	0.58	Present.	None ..	None ..	Doubt- ful.	Present.	
These tablets immediately relieve nervous and sick headache, neuralgia, pains in any part of the body; perfectly safe—do not contain any opiates—are new and very efficacious. Dose—Two tablets at once; repeat by taking 1 in $\frac{1}{2}$ hour if necessary. Pour les directions en Francais voir le circulaire inclus.	6.5	0.42	" ..	" ..	" ..	Present.	" ..	
Directions—Place this powder on the tongue and swallow with a draught of water, or stir the powder briskly in water and drink quickly; if not relieved in one hour take another powder; children under twelve years old, half a powder.	12.0	0.78	" ..	" ..	" ..	Doubt- ful.	None ..	