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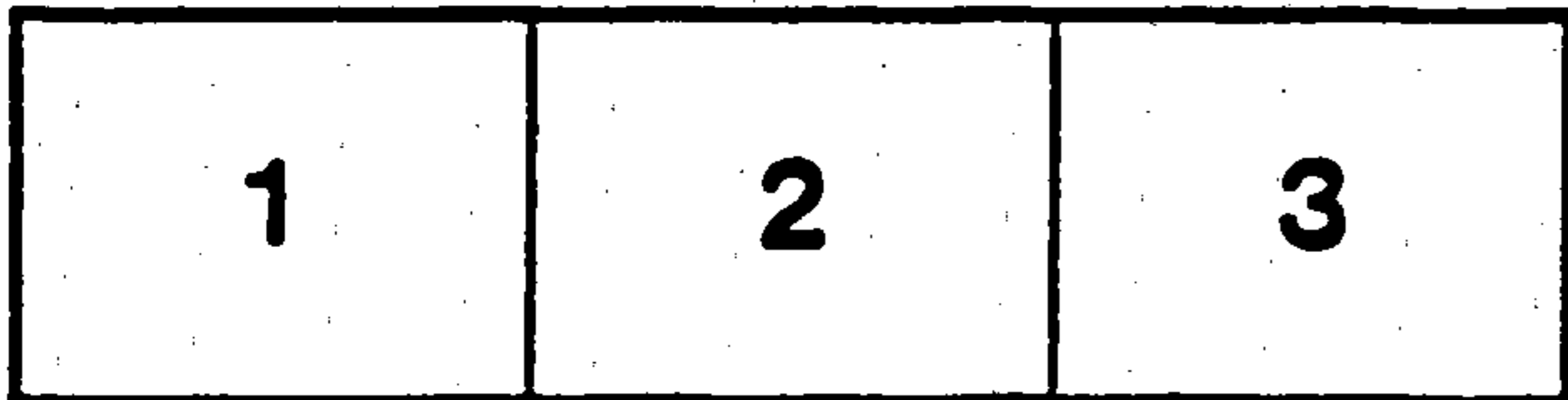
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O. H. M. S.

W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 148

DRUGS

CHLORAL HYDRATE, AMMONIUM BROMIDE, PURIFIED CREAM OF TARTAR

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 148

DRUGS

CHLORAL HYDRATE, AMMONIUM BROMIDE, PURIFIED CREAM
OF TARTAR

OTTAWA, December 3, 1907.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report dealing with 389 samples collected as above, and more particularly described as follows:—

	Samples.
Chloral hydrate	129
Ammonium bromide	129
Boracic acid (sold as ammonium bromide).....	1
Potassii tartras acidus.	92
Rochelle salt (sold as pot. tart. ac.).....	1
Cream of tartar.....	36
Bi. carbonate of soda (sold as cream of tartar).....	1
Total	389

boracic acid for bromide of ammonium, Rochelle salt for purified cream of tartar, and bi-carbonate of soda for cream of tartar, it is apparent that grave consequences are liable to follow in the filling of medical prescriptions. It will be further noted that one of the samples of bromide of ammonium contains nearly 18 per cent. of ammonio-chloride of mercury.

I think that everything further of importance in regard to these articles will be found in the notes appended to the tables. I have considered it unnecessary to give details of collection in regard to samples of chloral hydrate, since all of these samples were officially pure.

I beg to recommend that this report be published as Bulletin 143.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

Chief Analyst.

CHLORAL HYDRATE.

In July and August a collection of ten samples of this drug in each Inspectoral district was ordered. One hundred and twenty nine (129) samples were collected.

These were examined by Mr. Lemoine, of this office, and were found in every instance, to come up the requirements of the British Pharmacopœia. As regards the Soda test, a remarkable homogeneity was found, the volume of normal soda corresponding to 4 grammes of the drug, varying between 29.5cc and 29.9cc. In no case was any trace of chloral alcoholate found; and eighty samples were quite free from chlorides, while the traces obtained in the remaining 49 samples were so small as to be negligible.

The examination shows that this important drug, as supplied in Canada, is of a uniformly high grade.

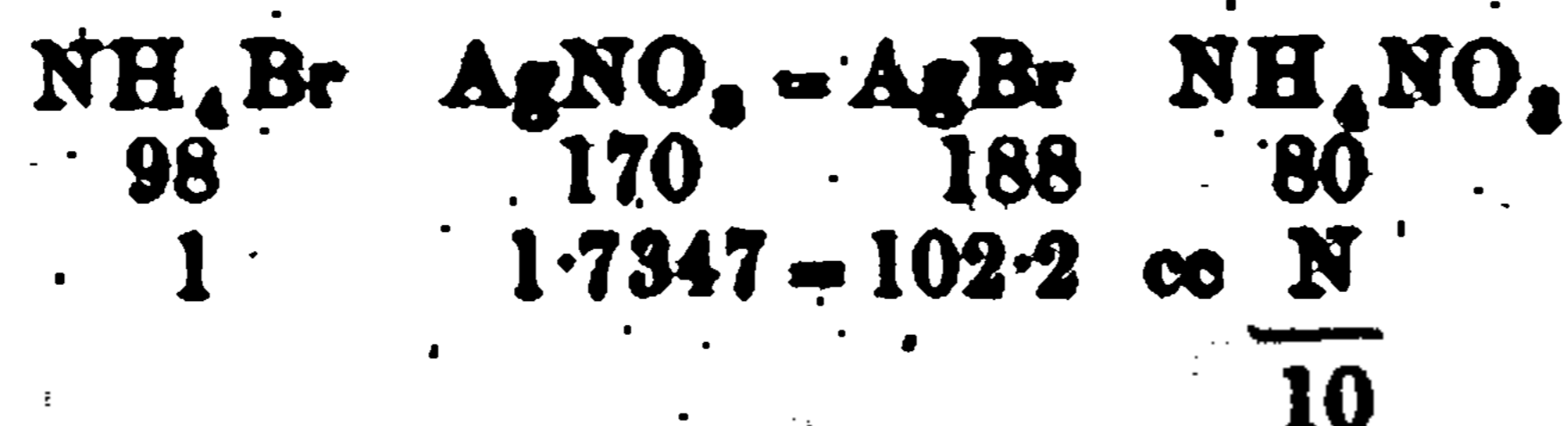
AMMONIUM BROMIDE—(SEE TABLE I).

One hundred and thirty samples were collected in August of this year; being ten in each inspectoral district.

Of these samples, two, namely Nos. 33424 and 29569 are not ammonium bromide. The former contains about 18 per cent of ammoniated chloride of mercury. No. 29569 is boracic acid.

The remaining samples (128 in number) are true to name; but of very different degrees of purity.

The distinctive pharmacopœal test for the purity of this drug is, titration with volumetric solution of nitrate of silver. The reaction is as follows:—



Hence *one gramme* of chemically pure ammonium bromide should require 102.2 cubic centimetres of the deci-normal solution of silver nitrate for complete decomposition. The closely allied chloride and iodide of ammonium (or other base) react similarly with silver solution. Owing to the lower molecular weight of the chloride, it would require $\frac{1}{10} \times \frac{188}{98} = 1.869$ cubic centimetres of deci-normal solution to react with 1 gramme; while, the greater molecular weight of iodide would cause only $\frac{1}{10} \times \frac{188}{234} = 69.0$ cubic centimetres to be used, in the case of the ammonium salts.

It is unlikely that the iodide should be present, as an impurity, on account of its higher value, and for other reasons. As a matter of fact, none of the samples now reported shows a lower titre than 102, except No. 33424, which contains ammonio-chloride of mercury, insoluble in water, and consequently not entering into reaction with the silver test.

The pharmacopoeia provides for traces of chloride as an impurity, and permits samples requiring as high as 103.6 cubic centimetres of the test solution to pass as satisfactory.

Assuming excess of test solution (above 102.2 cc) as due to admixture of ammonium chloride, the percentage of this substance present may be calculated from the following:—

If x = percentage ammonium chloride
 $100 - x$ = " " bromide
 Let a = cc. volumetric solution used per grammic sample

$$\frac{x}{.535} + \frac{100-x}{.98} = a$$

Whence, $x = 1.1782a - 120.23$

Taking $a = 103.6$, it thus appears that the British Pharmacopoeia permits as much as 1.83 per cent of ammonium chloride.

It will be seen, by consulting the appended table, that while a large number of the samples examined come very near to the B. P. Standard, not one sample quite reaches it, and a considerable number depart from it by notable amounts.

Chloride of ammonium is not a dangerous impurity, except in so far as it materially reduces the medicinal efficiency of the drug. The bromide is recognized as essentially a nerve sedative and depressant; while the chloride is a nerve stimulant. It is therefore evident that these substances tend to counteract each other. Moreover, the effective dose of chloride is smaller than that of the bromide; hence, the presence of relatively small percentages of the chloride is highly objectionable.

Since this is the first occasion upon which this drug has been subjected to inspection, it may be well to summarize the results of its examination, as below:—

PERCENTAGE OF PURITY.

District.	97 p.c.	96 p.c.	95 p.c.	94 p.c.	93 p.c.	92 p.c.	91 p.c.	90 p.c.	Total.
									Samples
Nova Scotia.....	5	2	1			1			9
Prince Edward Island.....	3	7							10
New Brunswick.....	2	1	1	1		2	1	1	9
Quebec.....	1	3	1	2		2	1		10
St. Hyacinthe.....	4	3					1		10
Montreal.....	3	6	1						10
Ottawa.....	3	7							10
Kingston.....	2	7				1			10
Toronto.....	2	5	1			1		1	10
London.....	2	6	1			1			10
Manitoba.....	3	3				2	2		10
Calgary.....	7	2	1						10
British Columbia.....	-	3	1			3	2	1	10
	37	55	10	3	0	13	7	3	128

This tabulation omits the two cases referred to above, where decided mistakes in dispensing occurred; in one case boracic acid being furnished; and in the other a bromide of ammonium highly contaminated with ammonio-chloride of mercury.

Expressed as percentages, we have the following:—

BROMIDE OF AMMONIUM.

	Per cent.
Of 97 to 98 per cent purity	28.9
96 " 97 " "	43.0
95 " 96 " "	7.8
94 " 95 " "	2.3
93 " 94 " "	10.1
92 " 93 " "	5.6
91 " 92 " "	2.3
	100.0 per cent.

of the collection.

Even if we allow a margin of 1 to 2 per cent. to cover possible errors in sampling, weighing, measuring and titration (a margin which is fully large even when work is not done in duplicate, and which entirely disappears under the conditions fulfilled in this laboratory), we find more than 20 per cent. of these samples below such standard, i. e., below 95 per cent. of purity.

This being a first inspection of the drug, it might be advisable to permit all samples reaching a purity of 95 per cent. to pass unquestioned. This suggestion is offered without prejudice to future inspection.

PURIFIED CREAM OF TARTAR.

Potassii Tartras Acidus: Acid potassium tartrate; Bitartrate of potassium, or purified cream of tartar, is to be carefully distinguished from commercial cream of tartar. For this last substance no legalized standard of purity exists, while for the first-named substance the British Pharmacopœia furnishes a perfectly definite standard "Each gramme of the dry salt should require for neutralization at least 5.2 cubic centimetres of the volumetric solution of sodium hydroxide. It should yield no characteristic reaction with the tests for lead, copper or iron, and only the slightest reaction with tests for calcium, magnesium, sodium, chlorides or sulphates. The total amount of impurities should not exceed 2½ per cent. of the dried salt."

Commercial cream of tartar, for which no standard of purity has been, thus far made legal, is very largely used as a component of baking powders, of effervescing drinks, etc. It is found on the market in varying degrees of purity, and has been made the subject of inspection in 1887, 1889, 1896, 1900 and 1905. The following synopsis may be of interest:—

COMMERCIAL CREAM OF TARTAR.

Date of collection.	Number of samples examined.	Found genuine.	Same expressed as percentage.
1887	36	22	61
1889	85	52	60
1896	99	66	66
1900	65	57	88
1905	180	132	73

It is likewise of interest to note the degree of purity reached by the Cream of Tartar of commerce. For the inspection of 1887, 73 per cent of the genuine cream of tartars examined were below 90 per cent purity; for 1889, 60 per cent; for 1896, 30 per cent; for 1900, 63 per cent. As regards the inspection of 1905, 12·8 per cent of the genuine samples reached a purity of 97 per cent, i.e. were practically up to the pharmacopoeal standard of purity; while 38·3 per cent were above 90 per cent of purity.

It must be remembered that these statements refer to Commercial Cream of Tartar. The inspection now reported has regard to the pharmacopoeal *Bitartrate of Potassium*, for which a standard of 97½ per cent purity is required. Our inspectors were instructed to ask for the article by one or other of the names recognized by the British Pharmacopoeia. These names are (1) *Potassii Tartras Acidus*; (2) *Bi-tartrate of Potassium*; (3) *Acid potassium tartrate*; (4) *Purified Cream of Tartar*.

These instructions were disregarded by the inspectors for the Districts of London, St. Hyacinthe, Manitoba and Calgary, whose invoices show that *Cream of Tartar* has been asked for. This failure to observe my instructions has the important consequence that thirty seven (37) samples, of the present collection, must be judged as *Cream of Tartar* and not as *Purified Cream of Tartar*.

Of the 37 samples referred to, No. 28837 contains a small amount of bi-carbonate of soda. It is probable that this is unintentionally present (perhaps from the container having formerly contained bi-carbonate) and I have marked it as "doubtful." No. 25621 consists entirely of Bi-carbonate of soda, and is evidently an error in dispensing. No. 27878 consists of acid phosphate of lime and starch; and No. 30428, contains burnt alum and starch. These two samples are therefore adulterated, under the Act. The remaining 33 samples must be passed as legal cream of tartar although their values, to the consumer, vary greatly. This is shown in the following table:—

	Samples.
95 to 100 per cent purity.....	11
90 to 95 " ".....	14
85 to 90 " ".....	7
Below 85 " ".....	1
	33
Doubtful.....	1
Adulterated.....	2
Error in dispensing.....	1
	37

The samples just referred to are reported in detail in the accompanying Table No. III. Table No. II. contains details of the examination of ninety three (93) samples purchased as *Potassii Tartras Acidus*, or *Purified Cream of Tartar*.

Of these samples Nos. 33415, 26309 and 33314 consist of burnt alum and starch, and are clearly adulterated. In the case of No. 26309 the word "Commercial" is pencilled on the label. Even as a commercial *Cream of Tartar* it would be pronounced adulterated. No. 32554 is a sample of Rochelle salt, and is clearly an error in dispensing.

Of the remaining 89 samples, only 21 samples fulfil the requirements of the British Pharmacopoeia. The 68 samples which, although genuine, in the sense of being essentially *Bi-tartrate of potassium*, are below the standard of purity fixed by the pharmacopoeia, differ so widely among themselves, that it seems scarcely just to place them in a single category. The variations referred to are clearly brought out, thus:—

	Samples.
From 97·5 to 95 per cent purity.....	4
" 95 to 92·5 ".....	6
" 92·5 to 90 ".....	24
Below 90 per cent.....	34
	68

The results of this examination of *Purified Cream of Tartar*, may therefore be summarized as follows:—

	Samples
Genuine	21
Doubtful (Error in dispensing).....	1
Adulterated (Burnt alum, &c.)	3
" (Commercial Cream of Tartar, below 90 p.c. purity).....	34
" (Commercial Cream of Tartar, below B.P. standard, but from 90 to 95 p.c. purity).....	20
" (Commercial Cream of Tartar, below B.P. standard, but above 95 p.c. of purity)	4
Total.....	<u>93</u>

While I have no power to change this classification, or to characterize as other than adulterated, any sample falling below 97.5 per cent purity, I would recommend a lenient treatment of such offenders, whose samples show a reasonably close approximation to the standard fixed by the British Pharmacopoeia; particularly, as the failure to meet the high degree of purity required by the Pharmacopoeia, involves no serious reduction of value in the drug, so far as the cases in question are concerned.

A. MCGILL

TABLE I.—RECORD OF SAMPLES OF BROMIDE OF AMMONIA ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Cents.
1907. DISTRICT OF NOVA SCOTIA—					
Aug. 5..	Bromide of Ammonia...	33416	E. S. Blackie, Hollis St., Halifax, N.S.....	3 ozs...	25
" 5..	"	33417	National Drug Co	3 " ...	20
" 6..	"	33418	G. A. Burbidge, Hollis St., Halifax, N.S.....	3 " ...	20
" 6..	"	33419	Jno. R. Rawley, Granville St., Halifax, N.S....	3 " ...	20
" 6..	"	33420	Brown Bros. & Co., Granville St., Halifax, N.S.	3 " ...	20
" 6..	"	33421	C. K. Huggins, Jacob St., Halifax, N.S.....	3 " ...	15
" 7..	"	33422	H. W. Cameron, Brunswick St., Halifax, N.S..	3 " ...	15
" 7..	"	33423	Jas. McFtridge, Gottingen St., Halifax, N.S..	3 " ...	20
" 7..	"	33424	Coombes & Co., Gottingen St., Halifax, N.S. .	3 " ...	25
" 13..	"	33425	R. F. Guest, Yarmouth, N.S.....	3 " ...	20
DISTRICT OF PRINCE EDWARD					
July 25..	Bromide of Ammonia...	31140	Reddin Bros., Charlottetown, P.E.I.	3 " ...	30
" 25..	"	31141	J. G. Jameson, Charlottetown, P.E.I.	3 " ...	30
" 25..	"	31142	G. S. Hughes, Charlottetown, P.E.I.....	3 " ...	20
" 26..	"	31143	A. Reddin, Charlottetown, P.E.I.....	3 " ...	25
" 26..	"	31144	McDonald & McKinnon, Charlottetown, P.E.I.	3 " ...	30
" 31..	"	31145	J. W. Caruthers, Montague Bridge, P.E.I... .	3 " ...	20
Aug. 6..	"	31146	P. McNutt & Son, Malp-que, P.E.I.....	3 " ...	15
" 6..	"	31147	Jardine & Bernard, Kensington, P.E.I.....	3 " ...	30
" 7..	"	31148	W. Kennedy, Summerside, P.E.I.....	3 " ...	30
" 7..	"	31149	A. W. P. Gourlie, Summerside, P.E.I	3 " ...	30
DISTRICT OF NEW BRUNSWICK—					
July 26..	Bromide of Ammonia...	29564	Nat. Drug & Chem. Co. Ltd., Mill st., St. John, N.B.	3 ozs...	25
" 27..	"	29565	Geo. A. Moore, 105 Brussels st., St. John, N.B.	3 " ...	45
" 29..	"	29566	Can. Drug Co. Ltd., Prince William St., St. John, N. B.	3 " ...	45
" 30..	"	29567	P. J. Donohoe, Cor. St. James and Charlotte St., St. John, N.B.	3 " ...	45
Aug. 6..	"	29568	B. J. Sharp, Broad St., Sussex, Kings Co., N.B.	3 " ...	45
" 7..	"	29569	Dr. E. O. Steeves Pharmacy, Main St. Moncton N.B.	3 " ...	45
" 9..	"	29570	C. P. Hickey, Main St., Chatham, N.B.....	3 " ...	35
" 20..	"	29571	Estate of Fred Waterson, King St., St. Stephen, N.B.	3 " ...	45
" 21..	"	29572	Alonso Staples, Cor. of York and King St., Fredricton, N.B.	3 " ...	30
" 23..	"	29573	Sheasgreen Drug Co., Main St., Woodstock, N.B.	3 " ...	25

BY INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
		R. P. Silver test N 1st Gram. 10	Excess over 102 cc. N calculated to 10 chloride.	Percentage of Purity.	

R. J. WAUGH, INSPECTOR.

National Drug Co., Halifax, N.S.	Sold as labeled.	106	3.52	96.48	
Not known	"	104	2.35	97.65	
National Drug Co., Halifax, N.S.	"	104	2.35	96.65	
"	"	105	3.52	96.48	
"	"	104	2.35	97.65	
"	"	106	4.70	93.30	
Fielding Chemical Co., Guelph, O.	"	108	7.04	92.96	
National Drug Co., Halifax, N.S.	"	101	2.35	97.65	
National Drug Co., St. John, N.B. Branch.	"	84	2.35	97.65	This sample contains about 18 p.c. of ammonio-chloride of mercury.

ISLAND—T. MOORE, INSPECTOR.

Lyman Sons, Montreal		105	3.52	96.48	
Not known		104	2.35	97.65	
"		104	2.35	97.65	
National Drug Co., Montreal		104	2.35	97.65	
Lyman & Sons, Montreal		105	3.52	96.48	
Simpson Bros., Halifax		103	3.52	96.48	
National Drug Co., Montreal		105	3.52	96.48	
Lyman Sons & Co., Montreal		105	3.52	96.48	
Not known		105	3.52	96.48	
National Drug Co., Montreal		105	3.52	96.48	

J. C. FERGUSON, INSPECTOR.

Imported by Vendors	Sold from bulk.	108	7.04	92.96	
Nat. Drug & Chem. Co., St. John, N.B.	"	104	2.35	97.65	
Malinkrot Chem. Co., New York, U.S.A.	"	106	4.70	93.30	
Nat. Drug Co., Ltd., St. John, N.B.	"	108	7.04	92.96	
Nat. Drug Co., Ltd., St. John, N.B.		107	5.87	94.13	
Not known	Samples filled from stock bottle on shelf.				This is a sample of Boracic Acid.
Rosengarten & Son, Philadelphia.	Taken from original package.	109	8.21	91.79	
Powers & Weightman, Philadelphia, P. A.	Sample filled from original package.	104	2.35	97.65	
Can. Drug Co., St. John, N.B.	Sample filled from large package.	105	3.52	96.48	
Can. Drug Co., St. John, N.B.		110	9.4	90.60	

TABLE I.—RECORD OF SAMPLES OF BROMIDE OF AMMONIA ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Cents.
1907. DISTRICT OF QUEBEC—					
July 29	Bromide of Ammonia	26304	Joseph Masson, 809 St. Valier.	3 ozs.	36
" 29	"	26306	Thon. I. Laroche, 735 St. Valier.	3 "	25
" 29	"	26306	L. E. Martel, 91 St. Joseph.	3 "	36
" 29	"	26307	David Gagnon, 90 St. Pierre.	3 "	36
" 29	"	26308	Victor Giroux, 104 Coté Lamontagne.	3 "	30
" 29	"	26329	W. Brunnette et Cie, 139 St. Joseph.	3 "	30
" 29	"	26310	C. P. Delisle, 379 ¹ / ₂ St. Jean.	3 "	30
" 29	"	26311	Alfred Jolicoeur, 338 St. Jean.	3 "	40
" 29	"	26312	F. E. Gauvres, 336 St. Jean.	3 "	30
" 29	"	26313	T. Edmond Dube.	3 "	21
DISTRICT OF ST. HYACINTHE—					
Aug. 6	Bromide of Ammonia	27851	J. C. Stockwell, Danville, Que.	9 ozs.	1 00
" 9	"	27852	A. Baldwin, Coaticook, Que.	9 "	75
" 9	"	27853	W. H. Griffith, Sherbrooke, Que.	9 "	65
" 9	"	27854	F. T. Ansell, Que.	9 "	45
" 14	"	27855	Wright & Co., St. Jean, Que.	9 "	75
" 14	"	27856	P. P. Sabourin, Que.	9 "	55
" 16	"	27857	Dr. C. P. Verdon, Granby, Quo.	9 "	75
" 26	"	27858	Dr. St. Jacques & Cie, St. Hyacinthe, Que.	9 "	50
" 26	"	27859	Dr. John West, Magog, Que.	9 "	1 00
" 26	"	27860	Pharmacie Ostigny, St. Hyacinthe, Que.	9 "	60
DISTRICT OF MONTREAL—					
July 30	Bromide of Ammonia	32543	J. E. W. Lecours, 238 Craig St., Montreal	3 ozs.	30
" 30	"	32544	Henry Lanctot, 295 St. Catherine St. E., M'tl.	3 "	25
Aug. 8	"	32545	Dr. J. Leduc & Co., Notre Dame St., Montreal.	3 "	20
" 8	"	32546	Pharmacie Robert, 1 St. Lawrence St., Montreal	3 "	25
" 9	"	32547	James Fortune, Huntingdon.	3 "	30
" 12	"	32548	J. A. Harte, Montreal	3 "	30
" 14	"	32549	A. L. Boucher, Joliette	3 "	45
" 14	"	32550	J. J. Lyons Co., Montreal.	3 "	30
" 14	"	32551	J. Pigeon	3 "	30
" 12	"	32562	O. F. Pinck, Montreal	3 "	25
DISTRICT OF OTTAWA—					
July 30	Bromide of Ammonia	34001	Medical Hall, Hull	3 ozs.	25
" 30	"	34002	Modern Drug Store, Hull	3 "	25
" 29	"	34003	E. R. DesRosiers, Ottawa	3 "	30
" 29	"	34004	The Jos. Valiquette Co., Ottawa	3 "	15
" 30	"	34005	Beattie & Argue, Ottawa.	3 "	25
" 30	"	34006	Allen & Cochrane, Ottawa.	3 "	30
" 30	"	34007	Geo. Watson, Ottawa	3 "	30
Aug. 5	"	34008	Geo. E. Moore, Carleton Place.	3 "	25
" 6	"	34009	Wm. Johnston, Smith's Falls	3 "	30
" 7	"	34010	F. L. Hall, Perth.	3 "	20

BY INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
		B. P. Silver test N per gram. 10	Excess over 102 cc. N calculated to 10 chloride.	Percentage of Purity.	

E. BELAND, INSPECTOR.

T. F. Martel, 91 St. Joseph.....	.....	107	5.87	94.13	
Kerry Watson, Montreal.....	.....	107	5.87	94.13	
The Lyman Knox Co., Montreal.....	.....	106	3.52	96.48	
" " ".....	.....	106	4.70	95.30	
" " ".....	.....	106	7.04	92.96	
Not known.....	.....	104	2.35	97.65	
".....	.....	109	8.21	91.79	
".....	.....	106	3.52	96.48	
Lyman Sons & Co., Montreal.....	.....	106	7.04	92.96	
Fielding Chem. Co.....	.....	106	3.52	96.48	

J. C. ROULEAU, INSPECTOR.

Not known.....	.....	106	4.70	95.30	
".....	.....	106	3.52	96.48	
Lyman Sons & Co., Montreal.....	.....	104	2.35	97.65	
Kerry Watson & Co., Montreal.....	.....	106	3.52	96.48	
Lyman Sons & Co., Montreal.....	.....	106	3.52	96.48	
L. C. Polson & Co., Kingston.....	.....	104	2.35	97.65	
Not known.....	.....	104	2.35	97.65	
".....	.....	109	8.21	91.79	
Lyman Sons & Co., Montreal.....	.....	104	2.35	97.65	
Not known.....	.....	106	4.70	95.30	

J. J. COSTIGAN, INSPECTOR.

Not known.....	.....	106	3.52	96.48	
".....	.....	104	2.35	97.65	
.....	.....	106	3.52	96.48	
.....	.....	105	3.52	96.48	
.....	.....	105	3.52	96.48	
.....	.....	105	3.52	96.48	
.....	.....	105	3.52	96.48	
.....	.....	105	3.52	96.48	
.....	.....	104	2.35	97.65	
.....	.....	106	4.70	95.30	
National Drug and Chemical Co.....	.....	104	2.35	97.65	

J. A. RICKEY, INSPECTOR.

National Drug and Chemical Co.....	Taken from bottle on shelf.	104	2.35	97.65	
Lyman, Knox & Co.....	"	106	3.52	96.48	
Ottawa Drug Co.....	"	106	3.52	96.48	
Lyman Sons & Co.....	"	104	2.35	97.65	
National Drug and Chemical Co.....	"	106	3.52	96.48	
Lyman Sons & Co.....	"	106	3.52	96.48	
".....	"	106	3.52	96.48	
National Drug and Chemical Co.....	"	106	3.52	96.48	
".....	"	104	2.35	97.65	
".....	"	106	3.52	96.48	

TABLE I.—RECORD OF SAMPLES OF BROMIDE OF AMMONIA ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Cents.
1907.					
DISTRICT OF KINGSTON—					
July 23	Bromide of Ammonia	32447	W. W. Gibson, Kingston	3 ozs.	30
" 23	"	32448	H. Wade, Kingston	3 "	30
" 23	"	32449	L. P. Best, Kingston	3 "	45
" 23	"	32450	H. Skinner & Co., Kingston	3 "	30
" 23	"	32451	G. Mahood, Kingston	3 "	30
" 23	"	32452	W. H. Medley, Kingston	3 "	30
" 23	"	32453	F. J. Hoag, Kingston	3 "	30
" 23	"	32454	A. J. Chown, Kingston	3 "	30
" 24	"	32455	J. B. McLeod, Kingston	3 "	30
" 25	"	32456	F. C. Clarke, Belleville Front	3 "	25
DISTRICT OF TORONTO—					
Aug. 5	Bromide of Ammonia	33341	Chas J. Stoddart, 95 Dundas St., West Toronto Junction.	3 ozs.	25
" 12	"	33342	Parke & Parke, 18 Market Square, Hamilton	3 "	25
" 15	"	33343	S. B. Scobell, 13 St. James St., St. Catharines	3 "	15
" 15	"	33344	Henry Southcott, 99 St. Paul St., St. Catharines	3 "	25
" 15	"	33345	Walker & Abbe, 30 Queen St., St. Catharines	3 "	25
" 15	"	33346	A. J. Greenwood, 149 St. Paul St., St. Catharines	3 "	15
" 15	"	33347	F. W. Jeffa, 68 King St., St. Catharines	3 "	20
" 19	"	33348	J. L. Macartney, 54 Erie Ave., Niagara Falls	3 "	15
" 19	"	33349	Niagara Falls Drug Co., 37 Queen St., Niagara Falls	3 "	25
" 19	"	33350	A. C. Thorburne, Niagara Falls South	3 "	25
DISTRICT OF LONDON—					
July 20	Bromide of Ammonia	30390	Frank H. Smith, St. Mary's	6 ozs.	60
Aug. 3	"	30411	E. D. Vignon, Windsor	3 "	30
" 13	"	30416	Geo. H. Small, St. Thomas	6 "	60
" 13	"	30419	Callard & McLacklan, London	6 "	60
" 14	"	30424	W. A. Karn, Woodstock	3 "	30
" 15	"	30427	Fred C. Bond, Galt	3 "	30
" 15	"	30429	C. J. Dickinson, Galt	3 "	30
" 15	"	30431	John Schmith, Berlin	3 "	30
" 16	"	30435	Walter Beattie Co., Guelph	3 "	50
" 16	"	30437	Alexander Steevens, Guelph	3 "	45

BY INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
		B. P. Silver test N 10 per gram.	Excess over 102 cc. N 10 calculated to chloride.	Percentage of Pur- ity.	
J. HOGAN, INSPECTOR.					
H. Skinner & Co., Kingston.....		105	3.52	96.48	
Evans & Sons, Montreal.....		105	3.52	96.48	
H. Skinner & Co., Kingston.....		105	3.52	96.48	
McKerson & Robbins, New York.....		105	3.52	96.48	
Not known.....		104	2.35	97.65	
H. Skinner & Co., Kingston.....		104	2.35	97.65	
" ".....		105	3.52	96.48	
" ".....		105	3.52	96.48	
Evans & Sons, Montreal.....		108	7.04	92.96	
H. J. DAGER, INSPECTOR.					
Lyman Knox, Toronto.....		105	3.52	96.48	
Howard, London, Eng.....		105	3.52	96.48	
F. C. Polson, Kingston.....		104	2.35	97.65	
Lyman Bros., Toronto.....		105	3.52	96.48	
Mallinckrodt, New York City.....		119	9.40	90.00	
Lyman Bros., Toronto.....		105	3.52	96.48	
Not known.....		108	7.04	92.96	
Dom. Drug Co., Hamilton.....		104	2.35	97.65	
" ".....		106	4.70	95.30	
Dom Drug Co., Hamilton.....		105	3.52	96.48	
T. KIDD, INSPECTOR.					
Nat. Drug & Chem. Co., London, Ont.....		105	3.52	96.48	
Nat. Drug & Chem. Co., London, Ont.....		105	3.52	96.48	
Nat. Drug & Chem. Co., London, Ont.....		105	3.52	96.48	
Wm. Sanders, London.....		105	3.52	96.48	
Lyman Bros. & Co., Toronto.....		108	7.04	92.96	
" ".....		105	3.52	96.48	
Elliott & Co., Toronto.....		105	3.52	96.48	
Not known.....		104	2.35	97.65	
J. Winer & Co., Guelph & Hamilton.....		105	3.52	96.48	
Lyman Bros., Toronto.....		106	4.70	95.30	

TABLE I.—RECORD OF SAMPLES OF BROMIDE OF AMMONIA ANALYZED

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	CONT.	
				Quantity.	Cents.
1907.					
DISTRICT OF MANITOBA—					
Aug. 6..	Bromide of Ammonia...	25613	Cranstons Drug Store, Winnipeg	3 ozs.	25
" 6..	"	25616	H. W. Bradshaw, Winnipeg	3 "	20
" 6..	"	25619	Colcleugh's Drug Store, Winnipeg	3 "	45
" 7..	"	25622	W. F. C. Brathwaite, Winnipeg	3 "	25
" 7..	"	25625	Gordon Mitchell Co., Winnipeg	3 "	35
" 7..	"	25635	H. Wise Co., Winnipeg	3 "	15
" 7..	"	25638	The T. Eaton Co., Winnipeg	3 "	45
" 6..	"	25641	Winnipeg Drug Hall, Winnipeg	3 "	40
" 10..	"	25650	R. D. Bruce	3 "	25
" 10..	"	25653	Thornton Andrews, Winnipeg	3 "	30
DISTRICT OF CALGARY—					
Aug. 21..	Bromide of Ammonia...	28788	Findlay Drug Co., Calgary	3 ozs.	30
" 21..	"	28789	Owen Bott, Calgary	3 "	30
" 23..	"	28790	McCutcheon Bros., Calgary	3 "	30
" 17..	"	28781	C. S. Pringle, Medicine Hat	3 "	30
" 17..	"	28782	B. F. Souch, Medicine Hat	3 "	45
" 17..	"	28783	E. M. Cawker, Medicine Hat	3 "	50
" 21..	"	28784	C. A. Wallace, Calgary	3 "	30
" 21..	"	28785	M. Maclean, Calgary	3 "	30
" 21..	"	28786	Oliver Bros., Calgary	3 "	30
" 21..	"	28787	Curry & Cope, Calgary	3 "	30
DISTRICT OF BRITISH COLUMBIA—					
Aug. 1..	Bromide of Ammonia...	32132	T. A. Muir & Co., New Westminster, B.C.	3 ozs.	35
" 1..	"	32133	D. S. Curtis & Co., New Westminster, B. C.	3 "	50
" 9..	"	32134	The Nelson Drug Stores Ltd., Vancouver, B.C.	3 "	45
" 9..	"	32135	John Reed, Granville St., Vancouver, B.C.	3 "	50
" 9..	"	32136	The McDowell, Atkins, Watson Co. Ltd., Van- couver.	3 "	45
" 9..	"	32137	W.M. Harrison & Co., Granville St., Vancouver.	3 "	35
" 9..	"	32138	The Woodward Dept. Stores, Hasting St., Van- couver.	3 "	25
" 9..	"	32139	The Red Cross Pharmacy, Cordova St. Van- couver.	3 "	40
" 16..	"	32140	F. J. Mackenzie, Ladner, B.C.	3 "	25
" 19..	"	32141	E. S. Knowlton Drug Stores, Carrall St. Van- couver.	3 "	45

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TABLE II.—RECORD OF SAMPLES OF PURIFIED CREAM OF TARTAR ANA-

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.	
				Quantity.	Cents.
1907. DISTRICT OF NOVA SCOTIA—					
Aug. 5..	Purified Cream of Tartar	33406	E. S. Blackie, Hollis St., Halifax	6 ozs.	15
" 5..	"	33407	National Drug Co., Halifax	6 "	15
" 6..	"	33408	G. A. Burbridge, Hollis St., Halifax... ..	6 "	15
" 6..	"	33409	C. A. Barnstead, Granville St., Halifax.....	6 "	15
" 6..	"	33410	Jno. R. Rawley, Halifax.....	6 "	15
" 6..	"	33411	Brown Bros. & Co., Halifax.....	6 "	10
" 6..	"	33412	C. E. Huggins, Jacob St., Halifax.....	6 "	15
" 13..	"	33413	L. C. Gardner & Co., Yarmouth, N. S.	6 "	20
" 15..	"	33414	J. D. Clark, Kentville, N. S.....	6 "	15
" 16..	"	33415	R. S. Dakin, Windsor, N. S.....	6 "	18
DISTRICT OF PRINCE EDWARD					
July 25..	Purified Cream of Tartar	31160	Redding Bros., Charlottetown	6 ozs.	13
" 25..	"	31161	J. G. Jameson, Charlottetown.....	6 "	15
" 25..	"	31162	G. E. Hughes, Charlottetown.....	6 "	15
" 26..	"	31163	A. Reddin, Charlottetown.....	6 "	18
" 26..	"	31164	McDonald, McKinnon, Charlottetown.	6 "	20
" 30..	"	31165	J. C. Ferguson, Souris.....	6 "	25
" 31..	"	31166	J. W. Carruthers, Montague Bridge.....	6 "	15
Aug. 6..	"	31167	P. McNutt & Son, Malpeque	6 "	12
" 7..	"	31168	W. Kennedy, Summerside	6 "	15
" 7..	"	31169	D. John McNeil, Summerside.....	6 "	15
DISTRICT OF NEW BRUNSWICK—					
Aug. 26..	Purified Cream of Tartar	29584	Nat. Drug & Chem. Co., Ltd., Mill St. St. John, N.B.	6 ozs.	20
" 27..	"	29585	E. Clinton Brown, St. John, N.B....	6 "	20
" 29..	"	29586	Can. Drug Co., St. John, N.B.	6 "	20
" 31..	"	29587	Wm. Hawker, St. John, N.B.....	6 "	20
" 6..	"	29588	The Sussex Mercantile Co. Ltd., Sussex, King's Co., N.B.	6 "	15
" 7..	"	29589	James McDonald Cook, Medical Hall, Moncton, N.B.	6 "	25
" 9..	"	29590	J. D. B. F. McKenzie, Chatham, N.B....	6 "	15
" 20..	"	29591	Frank Smith, St. Stephen, N.B.....	6 "	15
" 21..	"	29592	J. M. Wiley, Fredricton, N. B.	6 "	20
" 23..	"	29593	Garden Bros., Woodstock, N.B.....	6 "	12

LYZED BY INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY

Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.		Opinion of the Chief Analyst
		Acidity (cc.—acetic mal) per 100 grams.	Calculated to Bi- tartrate of Potas- sium.	

R. J. WAUGH, INSPECTOR.

National Drug Co., Halifax	Asked for and sold as la- beled.	488	91.7	Below standard.
Unknown	" "	478	90.0	"
National Drug Co., Halifax	" "	480	90.2	"
J. P. Mott & Co., Halifax	" "	482	90.6	"
National Drug Co., Halifax	" "	488	91.7	"
" "	" "	477	89.1	"
" "	" "	478	90.0	"
Dearborn & Co., St. John, N.B.	" "	492	92.5	"
National Drug Co., Halifax	" "	524	96.5	Genuine.
" "	" "			Adulterated. Is burnt alum and starch.

ISLAND—T. MOORE, INSPECTOR.

Not known		528	99.2	Genuine.
Lyman Sons & Co., Montreal		530	99.6	"
Not known		488	91.7	Below standard.
National Drug Co., Montreal		530	99.6	Genuine.
Taylor & Son, Scotland		486	92.0	Below standard.
Howards		468	88.0	"
Not known		496	93.25	"
E. W. Gillett & Co., Toronto		530	99.6	Genuine.
Not known		480	90.2	Below standard.
National Drug Co., Montreal		468	91.7	"

J. C. FERGUSON, INSPECTOR.

Vendor	Crystals Imported and ground by vendors.	518	97.4	Genuine.
E. W. Gillett & Co., Ltd., To- ronto, Ont.	Sample filled from buck by vendor.	530	99.6	"
Vendors, N.B.	Imported in Crystals by vendors and ground.	484	91.0	Below Standard.
Nat. Drug Co. Ltd., St. John, N.B.	Sample taken from large bottle.	512	96.3	"
Lyman, Sons & Co., Montreal, P.Q.	Sold as pure Cream of Tartar.	530	99.6	Genuine.
E. W. Gillett & Co., Ltd., To- ronto, Ont.		508	95.5	Below Standard.
" "		528	99.2	Genuine.
Nat. Drug Co., St. John, N.B.		506	95.1	Below Standard.
Colonial Spice Milling Co., Guel- ph, Ont.	Pkge. marked. Cream of Tartar, recommended for purity strength and uni- formity.	470	88.4	"
Nat. Drug Co., St. John, N.B.	Sample taken from large drawer in bulk.	468	88.0	"

TABLE II.—RECORD OF SAMPLES OF PURIFIED CREAM OF TARTAR ANALYSED.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.	
				Quantity.	Cents.
1907. DISTRICT OF QUEBEC—					
July 30..	Purified Cream of Tartar	26324	Jon. Masson, 808 St. Valier.....	6 ozs...	42
" 30..	"	26325	Thon. T. Laruche, 735 St. Valier.....	6 " ..	25
" 30..	"	26326	T. E. Martel, 91 St. Joseph.....	6 " ..	24
" 30..	"	26327	David Gagnon, 30 St. Pierre.....	6 " ..	25
" 30..	"	26328	Victor Giroux, Côté Lamontagne	6 " ..	29
" 30..	"	26300	W. Brunnette et Cie.....	6 " ..	30
" 30..	"	26330	C. P. Delisle, 370 1/2 St. Jean	6 " ..	30
" 30..	"	26331	Alfred Jolicoeur, 338 St. Jean.....	6 " ..	40
" 30..	"	26332	F. E. Gauvreau, 336 St. Jean.....	6 " ..	30
" 30..	"	26333	T. Edmond Dubé, 28 St. Jean.....	6 " ..	30
DISTRICT OF ST. HYACINTHE—					
Aug. 6..	Purified Cream of Tartar	27873	Dr. P. A. Brassard, Stanfield	12 ozs..	25
" 9..	"	27874	Dr. Stevenson, Coaticook.....	12 " ..	25
" 9..	"	27875	T. A. Bourque & Cie, Sherbrooke.....	5 Pkts, 1/2 lb. each.	30
DISTRICT OF MONTREAL—					
Aug. 14..	Purified Cream of Tartar	32552	J. T. Lyons Co., Montreal.....	6 ozs...	25
July 30..	"	32553	Joseph Cantant, 251 Notre Dame St., East, Montreal.	6 " ..	20
" 30..	"	32554	Henry Lanctot, 295 St. Catherine St., Montreal.	6 " ..	15
Aug. 1..	"	32555	O. St. Amour, St. Agathe.....	6 " ..	30
" 5..	"	32556	Dr. J. E. St. Onge, Valleyfield.....	6 " ..	25
" 5..	"	32557	Mrs. St. Louis, Valleyfield	6 " ..	30
" 5..	"	32558	Dr. Gauthier, Valleyfield.....	6 " ..	15
" 5..	"	32559	Dr. Lafontaine, Berthierville.....	6 " ..	20
" 8..	"	32560	Dr. J. Leduc & Co., Montreal & Co.....	6 " ..	20
" 8..	"	32561	J. Hirtz, 54 Craig St., Montreal.....	6 " ..	20
DISTRICT OF OTTAWA—					
July 30..	Purified Cream of Tartar	34021	Medical Hall, Hull	6 ozs...	20
" 30..	"	34022	Modern Drug Store, Hull.....	6 " ..	20
" 29..	"	34023	D. R. DesRosiers, Ottawa	6 " ..	25
" 29..	"	34024	The Jos. Valiquette Co., Ottawa	6 " ..	15
" 30..	"	34025	Beattie & Argue, Ottawa.....	6 " ..	20
" 30..	"	34026	Allen & Cochrane, Ottawa	6 " ..	20
" 30..	"	34027	Geo. Watson, Ottawa	6 " ..	25
Aug. 6..	"	34028	G. E. Moore, Carleton Place.....	6 " ..	15
" 7..	"	34029	Wm. Johnson, Smith's Falls.....	6 " ..	15
" 7..	"	34030	F. L. Hall, Perth.....	6 " ..	15

LYZED BY INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.	RESULTS OF ANALYSIS.		Opinion of the Chief Analyst.
		Acidity — per 100 Grammes.	Calculated to Bi- tartrate of Po- tassium.	

E. BELAND, INSPECTOR.

Nat. Drug & Chem. Co.....		470	88.4	Below Standard.
"		474	88.1	"
"		486	88.0	"
Evans & Sons, Montreal....		470	88.4	"
Lyman Knox Co., Montreal....		478	90.0	"
Not known.....				Is burnt alum and starch. The word "Commercial" is written in pencil on the bottle. Adulterated.
Dr. Ed. Morin et Cie.....		404	87.2	Below Standard.
Not known.....		470	89.5	"
Lyman Sons Co., Montreal....		456	85.7	"
Not known.....		494	92.9	"

J. C. ROULKAU, INSPECTOR.

J. E. Liverrais, Quebec.....		470	88.4	Below Standard.
Lyman, Sons & Co., Montreal....		478	90.0	"
S. H. Ewing & Son, Montreal....	Pkgs marked, pure ground 1 lb., Cream of Tartar.	490	90.2	"

J. J. COSTIGAN, INSPECTOR.

Nat. Drug & Chem. Co.....		484	91.0	Below Standard.
Not known.....		490	92.1	"
"				A mistake in filling the order. Is a sample of Rochelle Salts.
Lyman Sons.....		456	85.7	Below Standard.
"		494	92.9	"
Not known.....		482	90.6	"
"		476	89.5	"
"		474	89.1	"
"		484	91.0	"
Lyman Sons.....		472	88.7	"

J. A. RICKEY, INSPECTOR.

National Drug and Chemical Co. 99 per cent pure....		476	89.5	Below standard.
Lyman, Knox Co.....		476	89.5	"
Ottawa Drug Co., Ottawa.....		476	89.5	"
Lyman Sons & Co., Montreal....	Would not guarantee pure.	474	89.1	"
National Drug Co., Ottawa....	99 per cent pure....	476	89.5	"
Lyman Sons Co., Montreal....		470	88.4	"
"		484	91.0	"
National Drug and Chemical Co. 99 per cent pure....		524	98.5	Genuine.
"		476	89.5	Below Standard.
Lyman Sons & Co.	Gillett's Brand.....	526	98.9	Genuine.