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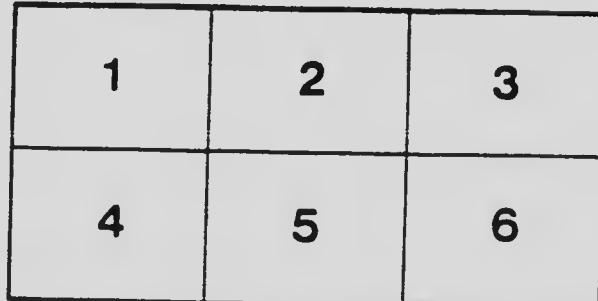
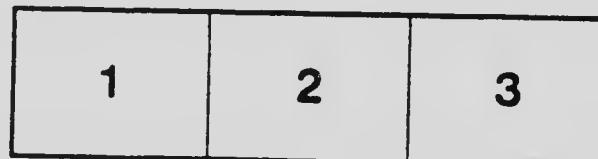
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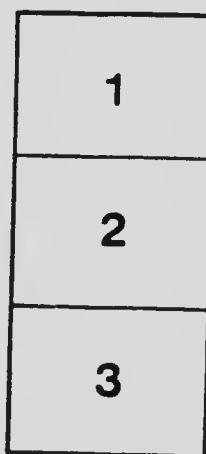
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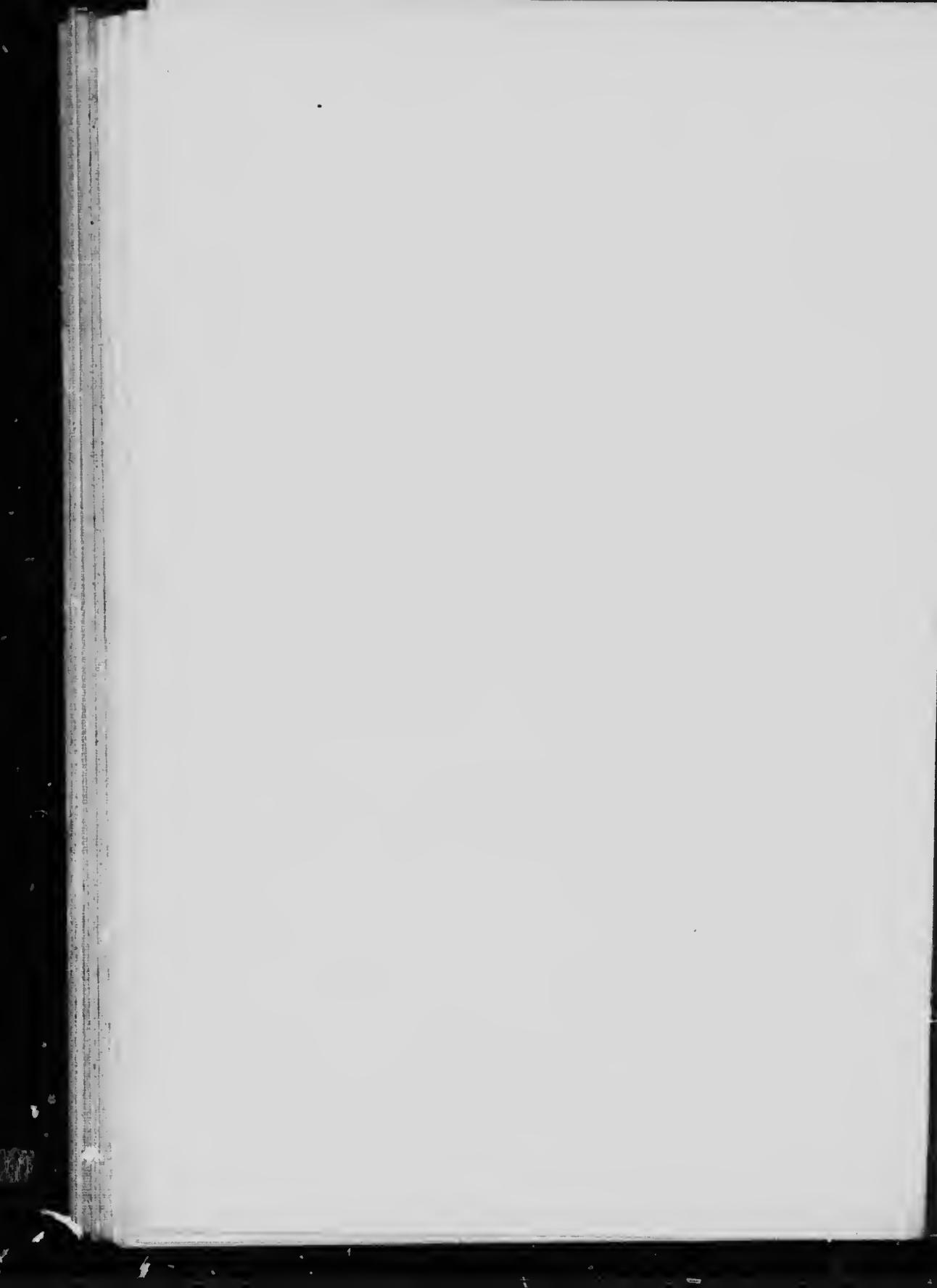
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O. H. M. S.

*W. J. Gerald*  
Deputy Minister.

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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

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BULLETIN No. 209

Spiritus Menthae Piperitæ.

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LABORATORY  
OF THE  
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OTTAWA, CANADA

BULLETIN No. 209

*Spiritus Menthae Piperitæ.*

OTTAWA, June 15, 1910.

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

SIR.—I beg to hand you herewith the results of examination of 71 samples of Spirit of Peppermint, purchased throughout Canada in March of this year.

*Spiritus Menthae Piperitæ* popularly known as Spirit of Peppermint, is thus prepared according to the British Pharmacopœia (Edn 1898):—

	Imperial.	Metric.
Oil of Peppermint .....	1 fl. ounce	50 cc
Alcohol (90 p.c.).....	a sufficient quantity.	

To the oil of peppermint add enough of the alcohol to form 10 fluid ounces (or 500 cc) of the spirit of peppermint.

The spirit of peppermint of the British Pharmacopœia of 1885 contained only one-fifth as much oil of peppermint as the above.

The manufacture is very simple, being merely the solution of a proper quantity of the oil in alcohol of correct strength. Hence we find that spirit of peppermint is usually prepared by the local druggist.

Adulteration may consist in (1) using an adulterated oil of peppermint; (2) using incorrect proportion of oil of peppermint; (3) using alcohol of incorrect strength; (4) using wood alcohol (or methylated spirit) instead of ethyl alcohol; (5) using an ingredient not prescribed by the pharmacopœia, such as a dye.

1. Oil of peppermint is, for various reasons, less liable to adulteration than most essential oils. No special examination of the separated oil has been made, in the case of samples now reported.

2. The oil should constitute one-tenth part by volume of the finished preparation. The method of dilution and separation employed in this work is described by Leach (Food Inspection and Analysis, 2nd Edn. p. 865) and yields a very close approximation to the actual content of oil, as proved by working upon samples prepared in the laboratory. Thirty one (31) samples, being 44 per cent, of the total collection, were found to contain the proper amount of oil of peppermint. The remainder exhibit great carelessness in preparation, and 32 samples contain only 5 per cent of oil, or less than this amount.

3. Alcohol has been approximately determined from the specific gravity of the sample; and exceeds 80 per cent (volume) in 65 samples (92 per cent of the collection).
4. No methyl alcohol is present in any of these samples.
5. Only one sample (38667) is dyed, with an aniline dye. Several samples contain small amounts of turmeric.

It is proper to observe that the above samples were obtained in drug shops, and are, therefore assumed to represent the pharmacopelial preparation.

A spirit or essence of peppermint is used in the kitchen as a flavour in candy making, and for other purposes. Such an article is in reality a flavouring extract, and should not be offered by a druggist, as being identical with the spirit of peppermint of the pharmacopæias. It is possible that samples 38667, 38669, 996, 40417, 42926, 44252, and some others which contain alcohol of distinctly less than prescribed strength, may have been intended by the manufacturer, as flavouring extracts rather than as pharmacopelial preparations. Indeed, in the case of one of these (No. 42926) the vendor stated that the article sold, was not the spirit of peppermint of the pharmacopæia. This statement, however, was not made until the sale was completed.

It may be permitted to me to observe that the very indefinite and miscellaneous character of the stocks carried in modern drug shops, has the disadvantage of making these less distinctively apothecary shops than was the case formerly. Many modern drug shops might, with equal propriety be classed as candy shops, refreshment counters, tobacconists, &c. That a druggist should carry peppermint flavouring extract, as well as the B. P. article, need cause us no surprise. It would be folly to inveigh against modern innovations, which may be the natural trend of things in course of betterment. But so long as the distinctive name drug shop is retained, I think it not too much to require that the aleman should be familiar with the preparations of the British Pharmacopœia, and that he should not be permitted to supply other than pharmacopelial preparations, when a customer asks for such, under a name recognized by the Pharmacopœia. Spirit of peppermint, or *spiritus menthae piperitæ* is a perfectly definite article, having legally recognized composition, and although its nature is such that no particular danger to health is likely to result from the substitution of a flavouring extract of peppermint, yet the same carelessness which permits the substitution, might, in other cases, be followed by very serious consequences.

It will be noted that many of the samples are labelled as essences. This term is not recognized by the British Pharmacopœia, nor by that of the United States of America. The French Codex Medicamentarius uses the word essence as synonymous with essential oil; thus *Essence de Menthe Poivrée* is equivalent to our *Mentha piperitæ Oleum*. It would therefore appear to be quite wrong to label spirit of peppermint as an essence. The word is undoubtedly homologous with the term essential oil, if not identical; bearing, and should be so used. In accepting a sample distinctly labelled 'Essence of Peppermint' our inspectors are at fault, unless they were definitely informed by the vendor that the article supplied was so supplied as equivalent to the spirit of peppermint, or *spiritus menthae piperitæ* which they were instructed to purchase.

This is the first time that the article named has been officially inspected under the Act; and I beg respectfully to recommend the publication of this report as Bulletin 209.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*

BULLETIN No. 209—SPIRITUS MENTHÆ PIPERITÆ.

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Quantity.	Cost.	Inspector's Report. Manufacturer or Furnisher (is not an expression of opinion). as given by the Vendor.	RESULTS OF ANALYSIS.			
							Equivalent in Alcohol (D <sub>40</sub> Vol.)	Equivalent in Water (D <sub>20</sub> Vol.)	Colour, etc.	No. of Samples.
1910.										
Mar. 10	Spiritus Menthae Piperita.	41936	A. A. Thompson, Halifax, N.S.	12 oz.	1.00	Vendor.....	0.8282	91.69	10.0 White .....	41936
" 10	"	41937	M. D. Logan, Halifax, N.S.	12 "	1.00	" .....	0.8342	89.83	10.0 "	41937
" 10	"	41938	Irwin & Sons, Halifax, N.S.	12 "	.90	Vendors .....	0.8228	90.35	10.0 Pale yellow- ish green.	41938
" 10	"	41939	J. S. Coombes & Co., Halifax,	12 "	.90	Vendor.....	0.8290	91.40	10.0 White and turbed.	41939
" 10	"	41940	G. McDougall, Kentville, N.S.	12 "	.90	" .....	0.8388	90.65	10.0 White .....	41940

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Quantity.	Cost.	Inspector's Report. Manufacturer or Furnisher (is not an expression of opinion). as given by the Vendor.	RESULTS OF ANALYSIS.				
							P. C.	P. C.	P. C.	P. C.	
1910.											
Mar. 10	Spiritus Menthae Piperita.	38666	E. Keir, Kensington	12 oz.	.90	Vendor.....	0.8357	90.46	10.0 White .....	38666	
" 10	"	38667	McNeill Drug Co., Summerside	12 "	1.20	Pure Gold Co., Toronto.	0.9298	83.81	About Bright green	38667	
" 15	"	38668	H. J. Malon, Souris	12 "	1.00	Vendor.....	0.8366	90.30	3.0 Whithish yellow.	38668	
" 15	"	38669	Dr. A. A. McDonald, Souris	12 "	1.00	Nat. Dr. & Chem. Co., Halifax.	0.8283	74.50	Albon greenish... .	38669	
" 17	"	38670	A. W. Reddin, Charlottetown	12 "	1.00	Vendor .....	0.8483	85.49	3.3 Yellow .....	38670	

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	4	Spiritus Mentha Piperita.	39080 The Nat. Drug & Chem. Co., 12 "	1.05 The Nat. Drug & Chem. Ltd., St. John, N.B. Co. Ltd., Montreal.	0 8283	92 21	Aleut Brownish green.	39640
"	15	"	39681 Chas. A. Burchill, Fredericton, 12 "	1.20 Vendor	0 8315	90 64	10 0 White	39641
Apr.	5	"	39682 B. J. Sharp, Sussex, N.B. ....	"	0 8257	88 48	5 0 Pale yellow	39642
"	5	"	39683 G. M. Fairweather, Sussex, N.B. 12 "	1.00	0 8185	90 64	10 0 Greenish yellow.	39643
"	6	"	39684 Acadia Drug Co., Moncton, N.B. 12 "	1.00 Vendors, ....	0 8364	89 27	5 0 Yellow	39644

DISTRICT OF QUEBEC—E. RELANI, INSPECTOR.

Mar.	9	Spiritus Mentha Piperita.	36548 V. Gironx, 16 Rue St. Pierre, 12 oz	1.20 Vendor Quebec.	0 8431	86 58	10 0 White	36548
"	9	"	36549 G. P. Hamondor, 122 Rue St. 12 "	1.20	0 8250	92 66	5 0 Yellowish white.	36549
"	9	"	36550 W. B. Roger, 44 Rue de la Fa- brique, Quebec.	1.20	0 8228	93 29	2 0 White	36550
"	9	"	36551 Lachetrotiere, 224 Rue St. Jean 12 "	1.20	0 8410	87 85	5 0	36551
"	9	"	36552 C. T. Delisle, 369 Rue St. Jean 12 "	1.20	0 8405	88 40	10 0	36552

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar.	9	Spiritus Mentha Piperita.	3955 Pharmacie Massicot Victoria, 12 oz	1.50 Vendors ville.	0 8282	91 52	7 0 White	3955
"	10	"	3956 Pharmacie Chagnon, Sherbrooke 12 "	"	0 9007	62 93	3 0	3956
"	15	"	3957 Dr. Verdun, Granby	12 "	0 8348	89 73	3 0	3957
"	16	"	3958 G. H. Johnson, Cowansville, ...	12 "	0 8573	82 44	10 0 Pale yellow	3958
"	18	"	3959 Dr. Viger, St. Hyacinthe, ...	12 "	0 8341	89 96	7 0 White	3959

\* Aniline dye present.

BULLETIN No. 209—SPIRITS MENTHA PIPERITA.

No.	Nature of Sample.	Date Collected	Cust	Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher (In fect an expression as given by the Vendor.)	Inspector's Report (if present)	Results of Analysis.	
							Per cent. Piperine.	Per cent. Caffeine.
40417	3 Spirits Mentha Piperita.	Mar. 3	40417 Queenville & Giverny, 397 St. 12 oz.	10 Vendors	Antoine St., Montreal.	.....	0.5657	4.37
40418	"	"	40418 Deau Lauter, 296 St. Catherine 12 "	75 Vendor	.....	0.5883	6.67	5.0
40419	"	"	40419 E. Vadiloucier, 530 St. 12 "	100 "	.....	0.5265	9.21	5.6
40420	"	"	40420 O. T. Pinck, 207 McGill St., 12 "	75 "	.....	0.5253	9.57	2.0
40421	"	"	40421 E. F. Emery, 665 Notre Dame 12 "	125 West, Montreal.	.....	0.5474	8.48	3.0
								40421
DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.								
1910.								
Mar.	3 Spirits Mentha Piperita.	40417 Queenville & Giverny, 397 St. 12 oz.	10 Vendors	.....	.....	.....	0.5657	4.37
6	"	40418 Deau Lauter, 296 St. Catherine 12 "	75 Vendor	.....	.....	.....	0.5883	6.67
5	"	40419 E. Vadiloucier, 530 St. 12 "	100 "	.....	.....	.....	0.5265	9.21
12	"	40420 O. T. Pinck, 207 McGill St., 12 "	75 "	.....	.....	.....	0.5253	9.57
12	"	40421 E. F. Emery, 665 Notre Dame 12 "	125 West, Montreal.	.....	.....	.....	0.5474	8.48
								40421
DISTRICT OF OTTAWA—J. A. HICKEY, INSPECTOR.								
Mar.	1 Spirits Mentha Piperita.	42926 R. B. Gray, Penetanguishene	12 oz	10 Vendor	.....	.....	After purchase of 6 9143	73.79
					.....	.....	Sample. Vendor	3.5
6	"	42927 J. L. Rochester, Ltd., Ottawa	12 "	120 Vendors	.....	.....	stated that it was	
8	"	42928 T. Payment, Ottawa	12 "	120 Vendor	.....	.....	not Spiritus Men-	
10	"	42929 R. S. Harrison, Ottawa	12 "	100 "	.....	.....	tha Piperita but	
10	"	42930 P. Valliquette, Ottawa	12 "	120 "	.....	.....	presence of Pepper	
							mint.	
					.....	.....	0.8233	10.49
					.....	.....	10.0 White	42927
					.....	.....	0.8266	9.57
					.....	.....	10.0 " "	42928
					.....	.....	0.8279	9.78
					.....	.....	2.0 Pale yellow	42929
					.....	.....	0.8278	9.81
					.....	.....	5.0 White	42930

DISTRICT OF KINGSTON—JAS. HODKIN, INSPECTOR.

Mar.	1	Spiritus Menthae Piperita.	44251 F. Hoag, Kingston	12 oz	1 20	Vendor	...	...	0 8311	91 85	10 0 White, ...	44251
"	1	"	44252 C. S. Prouse, Kingston	12 "	.75	"	...	...	0 8002	69 44	2 0 Yellow, ...	44252
"	1	"	44253 J. McLeod, Kingston	12 "	1 20	"	...	...	0 8334	90 17	5 0 " " "	44253
"	1	"	44254 A. P. Chown, Kingston	12 "	1.00	"	...	...	0 8480	85 26	2 0 White and cloudy.	44254
"	4	"	44255 McDevitt & Jury, Peterboro	12 "	1 05	Vendor	...	...	0 8280	91 49	7 3 White	44255

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Mar.	3	Spiritus Menthae Piperita.	41492 E. L. L. Deane, 1658 Dundas	12 oz	1 10	Vendor	...	...	Labelled Spce. Menth 0	8286	91 28	10 0 White
"	4	"	41493 F. E. W. Toronto,	12 "	1.00	"	...	...	Pip.	...	...	41492
"	8	"	41494 Hawkins Ltd., John St. South	12 "	.75	Vendors	...	...	Labelled Spce. Menth 0	8287	90 38	10 0 " "
"	16	"	41496 R. M. Black, 15 Ontario St., St. Catharines.	12 "	.75	Vendor	...	...	Pip. B. P.	...	...	41493
"	18	"	41497 G. Tamblin, College Ave., To- ronto.	12 "	.90	"	...	...	Labelled Spce. Menth 0	8275	91 90	2 0 Yellow, ...
							...	...	Pip.	...	...	41494
							...	...	Labelled Spce. Menth 0	8228	93 29	2 0 Pale-yellow
							...	...	Pip. Vendor stated	...	...	41495
							strength was 16.50.	...		...	...	
							Labelled Spce. Menth 0	8259	92 39	10 0 Green	...	41497
							Pip.	...		...	...	

DISTRICT OF LONDON—T. KIDD, INSPECTOR

Mar.	15	Spiritus Menthe	44730 Drunk-up Drugist, Goderich	6 oz	.60	Vendor	...	...	0 8282	91 40	10 0 White, ...	44730
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DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Mar.	5	Essence Pepper- mint.	42518 W. T. Strong, London	12 oz.	1 20	Vendor	...	...	0 8343	91 68	7 5 White,	42518
"	7	"	42519 P. J. Wilson, Sarnia	12 "	1.05	"	...	...	0 8307	90 96	5 0 Pale-yellow	42519
"	7	"	42523 R. J. Jackson & Co., Petrolia	12 "	1.20	"	...	...	0 8250	91 46	5 0 " "	42523
"	8	"	42530 Jackson & Co., Petrolia	12 "	1.00	Vendors	...	...	0 8216	93 66	5 0 White, ...	42530
"	9	"	42538 Geo. A. Small, St. Thomas	12 "	1 00	Vendor	...	...	0 8252	92 60	5 0 " "	42538

\* None but smells of peppermint.

BULLETIN No. 209—SPIRITUS MENTHA PIPERITÆ.

Date of Collection	Nature of Sample	No. of Samples	Name and Address of Vendor	Cust.	RESULTS OF ANALYSIS.		
					No. of Sample	By Volume of Sample in ml. 25	By Weight of Sample in gm. 25
Mar. 16	16 Spiritus Menthae Piperitæ.	1	43406 R. T. Butchart, Minnedosa, ...	12 oz [1.50] Vendor	.....	0.8298	91.23 10.0 Yellowish green.
"	"	1	43407 Glenboro Drug Store, Glenboro	12 oz [1.50] Vendor	.....	0.8294	91.63 10.0 Green.
"	"	1	43408 W. Collins & Co., Morden	12 oz [1.00] Vendor	.....	0.8275	91.90 5.0 White.
"	"	1	43409 P. F. Braund, Winnipeg	12 oz [1.20] The Bole Drug Co., Winnipeg.	.....	0.8296	91.28 10.0 "
"	"	1	43410 A. J. Brown & Co., Winnipeg	12 oz [1.20] Vendors	.....	0.8295	91.31 10.0 "
"	"	1			.....	.....	.....

DISTRICT OF MANITOBA—A. C. LARIVIÈRE, INSPECTOR

Date of Collection	Nature of Sample	No. of Samples	Name and Address of Vendor	Cust.	RESULTS OF ANALYSIS.		
					No. of Sample	By Volume of Sample in ml. 25	By Weight of Sample in gm. 25
1910.	16 Spiritus Menthae Piperitæ.	1	43406 R. T. Butchart, Minnedosa, ...	12 oz [1.50] Vendor	.....	0.8298	91.23 10.0 Yellowish green.
"	"	1	43407 Glenboro Drug Store, Glenboro	12 oz [1.50] Vendor	.....	0.8294	91.63 10.0 Green.
"	"	1	43408 W. Collins & Co., Morden	12 oz [1.00] Vendor	.....	0.8275	91.90 5.0 White.
"	"	1	43409 P. F. Braund, Winnipeg	12 oz [1.20] The Bole Drug Co., Winnipeg.	.....	0.8296	91.28 10.0 "
"	"	1	43410 A. J. Brown & Co., Winnipeg	12 oz [1.20] Vendors	.....	0.8295	91.31 10.0 "
"	"	1			.....	.....	.....

DISTRICT OF CALGARY—B. W. FLETCHER, INSPECTOR

Date of Collection	Nature of Sample	No. of Samples	Name and Address of Vendor	Cust.	RESULTS OF ANALYSIS.		
					No. of Sample	By Volume of Sample in ml. 25	By Weight of Sample in gm. 25
Mar. 8	8 Spiritus Menthae Piperitæ.	1	43677 A. Archibald, Edmonton	12 oz [1.25] Vendor	.....	0.8302	91.11 8.9 White.
"	"	1	43678 Macdonalds Pharmacy, Edmon	12 oz [1.50] D. W. Macdonald, Edmon-	ton.	0.8311	90.85 10.0 "
"	"	1	43679 C. S. Pringle, Medicine Hat	12 oz [1.25] Vendor	.....	0.8356	89.32 10.0 "
"	"	1	43680 B. F. Souch, Medicine Hat	12 oz [1.25] "	.....	0.8326	90.40 10.0 "
"	"	1	43681 W. Maclean, Calgary	12 oz [1.25] "	.....	0.8315	90.73 7.5 Green.
"	"	1			.....	.....	.....

" 15	" ..	33680 B. F. South, Strength 100%.....	0 8315	90 73	7 5 (green.....)
" 16	" ..	33681 W. Maclean, Calgary.....	12 "	1.25	" ..
"	" ..				

## DISTRICT OF VANCOUVER—INO. F. POWER, INSPECTOR.

38 Mar. 14	Spiritus Menthæ Piperite.	37843 Marrett & Reid, Vancouver, B.C. 12 oz. 1 25 Vendors.....	.....	.....	0 8299	91 20	10 0 White.....	37843
" 14	" ..	37844 Woodwards Dept. Store, Van- cover, B.C. 12 " 1.50 " ..	.....	.....	0 8318	90 64	8 0 " ..	37844
" 14	" ..	37845 Red Cross Drug Store, Van- cover, B.C. 12 " 2.25 Vendor.....	.....	.....	0 8307	90 96	4 0 Yellowish, green.	37845
" 14	" ..	37846 Red Haven Drug Store, Van- cover, B.C. 12 " 1.50 " ..	.....	.....	0 8306	90 99	5 0 "	37846
" 14	" ..	37847 Wilsons Drug Store, Vancouver B.C. 12 " 1.50 " ..	.....	.....	0 8607	81 12	3 0 Waite ...	37847

## DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar. 18	Spiritus Menthæ Piperite.	41639 F. J. Williams, Victoria, B.C. 12 oz. 1 25 Vendor.....	.....	.....	0 8306	90 99	10 0 White.....	41639
" 18	" ..	41670 W. S. Terry, Victoria, B.C. 12 " 75 " ..	.....	.....	0 8362	89 33	10 0 " ..	41670
" 18	" ..	41671 Hall & Co., Victoria, B.C. 12 " 1.50 Vendors.....	.....	.....	0 8326	90 40	10 0 " ..	41671
" 18	" ..	41672 Wm. Jackson & Co., Victoria, B.C. 12 " 1.25 " ..	.....	.....	0 8325	90 43	10 0 " ..	41672
" 18	" ..	41673 Geo. A. Fraser, Victoria, B.C. 12 " 1.25 Vendor.....	.....	.....	0 8335	90 14	10 0 " ..	41673

