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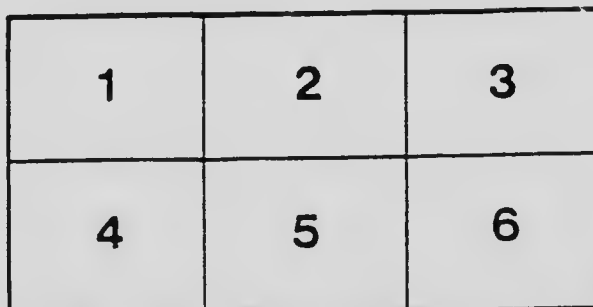
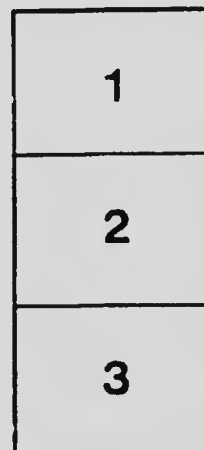
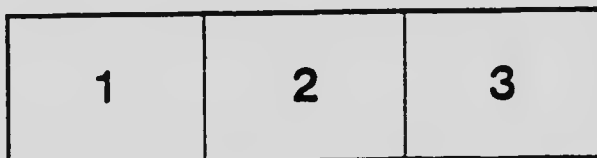
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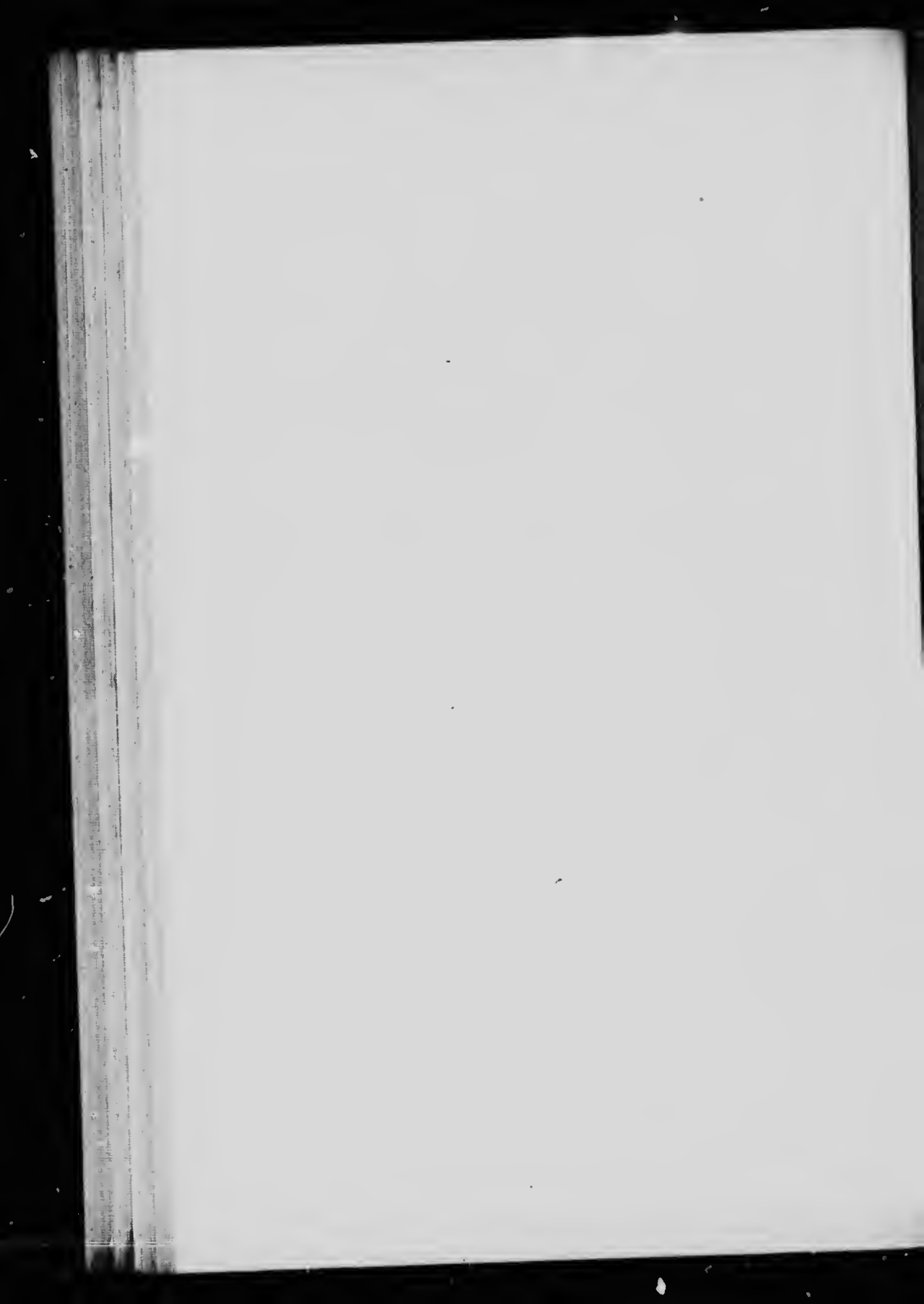
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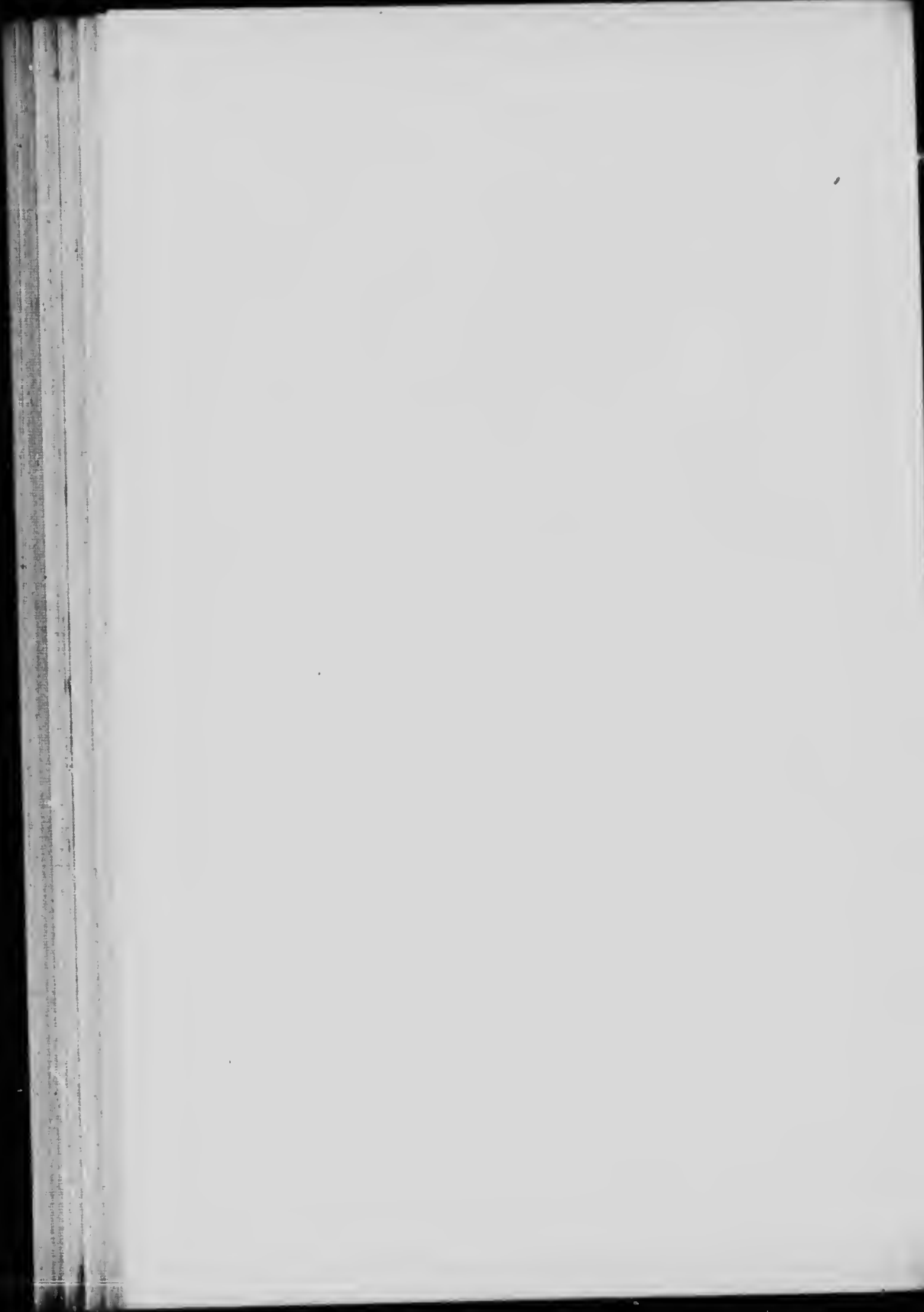
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No 382

LINIMENT OF CAMPHOR



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No 382

LINIMENT OF CAMPHOR
(*Linimentum Camphoræ*)

OTTAWA, August 16th 1917.

J. U. VINCENT, F. R. C. S., K. C., B. A., L. Ph.,
DEPUTY MINISTER OF INLAND REVENUE.

SIR,

I beg to hand you a report upon 94 samples of Liniment of Camphor, purchased by our inspectors in April, May and June of this year.

Orders for this collection were issued in March last, and 106 samples were returned ;

The British Pharmacopœia (Edn. 1914) requires Liniment of Camphor to contain 20 per cent. of camphor, dissolved in Olive Oil.

In India, and in the Eastern, African, Australasian and North American Divisions of the Empire, Arachis (pea-nut) or Sesame Oil, but no other oil or fat may be employed instead of Olive Oil.

The United States Pharmacopœia, Ninth revision (1916), prescribes the same percentage amount of Camphor, but directs Cottonseed Oil to be used as the solvent.

Fifty-three (53) of the samples now reported are made with Cotton Seed Oil; and if judged by the formula of the British Pharmacopœia, are technically adulterated on this account. Nineteen (19) of these samples are genuine, so far

as the content of camphor is concerned ; and if judged by the formula of the United States Pharmacopœia, are strictly correct. There would appear to be no good reason for regarding cotton seed oil as in any way inferior to Olive Oil, in the preparation of this liniment, and I have judged these samples as genuine.

The following summary presents the results of our work :

Samples collected by mistake.....	12
“ Liniment of Camphor.....	94

Total..... 106

Liniment of Camphor.

Made with Olive Oil.....	41 samples.
Made with Cotton Seed Oil.....	53 “

Total..... 94 “

Containing above 20 per cent. camphor.....	40 samples.
Containing above 18 per cent. camphor.....	15 “
Containing above 15 per cent. camphor.....	18 “
Containing less than 15 per cent. camphor.....	21 “

Total..... 94 “

The camphor content is the most important feature of this Liniment. Owing to the volatility of this component, and for the purpose of allowing reasonable variation in manufacture, the U. S. P. specifically permits the camphor content to vary from 19.5 to 20.5 per cent. The B. P. prescribes no limits of the kind.

Bearing in mind that this is our first systematic examination of the article, it may be permitted to accept samples containing at least 18 per cent. of camphor as satisfactory; and perhaps those containing at least 15 per cent. as doubtful; such judgments, however, are not to be regarded as precedents, for future decisions. If this suggestion be accepted the samples, as regards camphor content, may be classified thus :

Genuine, both as regards camphor content, and solvent.....	36
Genuine as regards camphor content.....	19
Doubtful.....	18
Adulterated.....	21

Total..... 94

As already noted, those samples which contain less than 18 per cent. of camphor, (39 in number, or 41 per cent. of the total collection) are undoubtedly to be regarded as adulterated; although for this time passed as “doubtful” where as much as 15 per cent camphor is present : and do not furnish the purchaser with a satisfactory article, or the physician with an effective remedy. Nine of them contain less than 10 per cent. of camphor; and several of them considerably less than this amount.

I have on previous occasions found cause to remark upon the carelessness, or worse, exhibited by the retail drug trade in Canada: (See Bulletins 175, 225, 265, 315, 339, 342, 344); and it is sufficiently evident that the Adulteration Act, applying to the inspection of Drugs as well as Foods, must be enforced as vigorously in regard to the first named class of articles as to the latter. Whether or not the fact that most of our Apothecary shops are more truly described as Candy, Tobacco and nick-nack shops, has anything to do with the lack of attention given to quality of drugs proper, must be left an open question; but it is suggestive, and cannot be allowed to pass without remark.

I beg to recommend publication of this report as Bulletin No 382.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

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Date of Collection	Nature of Sample	Number of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts	Manufacturer	Furnisher
DISTRICT OF NOVA SCOTIA —R. J							
1917 May	25	Liniment of Camphor.	76526	A. F. Atlee, Annapolis, N. S.	12 ozs	1.35	Vendor.....
"	26	"	76527	H. E. Wilson, Windsor, N. S.	"	1.20	"
June	22	"	76528	Nat. Drug & Chem. Co. Halifax.	"	90	Vendors.....
"	25	"	76529	G. McGillivray, Halifax.....	10 ozs	1.00	Vendor.....
"	15	"	76550	Brown Bros & Co. Halifax....	"	75	"
"	15	"	78725	J. Burke Aiken, Stellarton N. S.	12 ozs	1.35	"
"	15	"	78726	T. H. Cochran, New Glasgow, N. S.	"	1.20	"
"	15	"	78727	A. C. Heli, New Glasgow, N. S.	"	90	"
DISTRICT OF CAPE BRETON—							
April	20	Liniment of Camphor.	63862	J. J. Turnhill, Sydney, C. B.	12 ozs	1.05	Vendor
"	20	"	63863	F. J. Hardison, Sydney C. B.	"	"	"
"	20	Camphora-rated oil	63864	C. H. Harshman, Sydney, C. B.	"	"	"
"	20	Liniment of Camphor	63865	D. J. Buckley, Sydney, C. B.	"	1.00	"
"	20	"	63866	P. McL Carter, Sydney C. B.	"	1.00	"
DISTRICT OF PRINCE EDWARD ISLAND—							
May	22	Liniment of Camphor.	60652	Geo. E. Hughes, Charlottetown, P. E. I.	12 ozs	1.20	Vendor.....
"	22	"	60653	The Two Macs, Charlottetown, P. E. I.	"	"	"
"	22	"	60654	J. G. Jamieson, Charlottetown, P. E. I.	"	1.05	"
"	26	"	60678	McDonald Drug Co, Summerside, P. E. I.	"	1.50	"
"	30	"	60691	C. D. Rankin, Charlottetown P. E. I.	"	1.20	"
DISTRICT OF NEW BRUNSWICK —							
May	17	Liniment of Camphor	69753	Nat. Drug & Chem. Co., St. John, N. B.	12 ozs	1.05	Vendors.....
"	17	"	69754	The Canadian Drug Co., St. John, N. B.	"	50	"
June	5	"	69755	Alonzo Staples, Fredericton, N. B.	"	.45	"
"	6	"	69756	Garden's Drug Store, Woodstock, N. B.	"	1.20	"
"	13	"	69757	J. McD. Cooks, Moncton, N. B.	"	1.65	"

LINIMENT OF CAMPHOR

Inspector's Report is not an expression of Opinion	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rota- tion at 20° C	Camphor Calculated	Camphor by Evaporation %	Refractive Index		Raisben test for Cottonseed Oil		No. of sample
				A 15.5° C	A 25° C			
WAUGH, INSPECTOR. W. A. PETITPAS TEMPORARY INSPECTOR.								
.....	77.8	27.00	27.00	1.4709	.....	Positive	76526 Genuine as to camphor content, but made with cotton seed oil.
.....	57.0	20.00	19.57	1.4702	.....	negative	76527 Genuine
.....	50.4	20.60	20.42	1.4712	.....	"	76528 Genuine.
.....	40.5	14.05	14.38	1.4731	.....	positive	76529 Adulterated; Camphor too low.
.....	52.1	18.10	17.42	1.4714	.....	negative	76530 Genuine.
.....	50.3	20.58	23.86	1.4560	.....	"	78725 Genuine.
.....	49.8	17.30	17.04	1.4714	.....	positive	78726 Doubtful.
.....	25.0	8.67	8.84	1.4735	.....	"	78727 Adulterated; Camphor very low.
E. F. MACKEN, INSPECTOR.								
.....	73.8	25.30	25.32	1.4703	.....	negative	63862 Genuine.
.....	45.3	15.72	15.92	1.4749	.....	positive	63863 Doubtful.
.....	33.6	11.65	11.00	1.4732	.....	"	63864 Adulterated; Camphor too low.
.....	34.7	12.04	12.30	1.4731	.....	"	63865 Adulterated; Camphor too low.
.....	41.6	14.45	15.60	1.4702	.....	"	63866 Doubtful.
I. F. ARSRNAULT, INSPECTOR.								
.....	55.3	19.20	19.70	1.4702	.....	negative	60652 Genuine.
.....	22.7	7.87	.....	.....	.....	.....	60653 Is a compound liniment, purchased in mistake
.....	65.4	22.68	23.22	1.4700	.....	negative	60654 Genuine.
.....	57.5	19.95	20.22	1.4723	.....	positive	60678 Genuine as to camphor content, but made with cotton seed oil.
.....	10.3	3.57	3.66	1.4701	.....	negative	60691 Adulterated; Camphor very low.
JOHN C. FERGUSON, INSPECTOR.								
.....	62.3	21.60	21.40	1.4702	.....	negative	69753 Genuine.
.....	63.1	21.90	22.14	1.4702	.....	"	69754 Genuine.
.....	53.2	18.46	19.04	1.4732	.....	positive	69755 Genuine as to camphor content, made with cotton seed oil.
.....	42.2	14.65	14.82	1.4732	.....	"	69756 Adulterated; Camphor too low.
.....	24.4	8.46	.....	1.4608	.....	negative	69757 Is Chloroform liniment, purchased by mistake.

Date of Collection	Nature of Sample	Number of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts.	Manufacturer.	Furnisher

DISTRICT OF QUEBEC CITY —

1917 April	10	Liniment de camphre.	71001 A. E. Francoeur, 394 St Jean Québec.	12 ozs	90	Vendor.....	
"	10	"	71002 A. L. Jolicoeur, 338 St. Jean, Québec.	"	1.05	"	
"	10	"	71003 N. W. Kinear, 135 St. Jean, Québec.	"	1.05	"	
"	10	"	71004 W. B. Rogers, 44 de la Fahrl-	"	.20	"	
"	10	"	71005 LaRoche & Co. 4 de la Fahrl- que, Québec.	"	90	"	

DISTRICT OF QUEBEC PROVINCE—O. BRO.

April	12	Liniment	6421 J. E. Rouillard, St. Gervais, P. Q.	3bots	75	Hervay Chem. Co	
"	12	Liniment de camphre	5601 Eugène Fournier, St. Jerome P. Q.	12 ozs	1.20		
"	22	"	5617 Ed. Grignon, Ste. Agathe des Monts, P. Q.	"	70		
"	22	"	5618 Omer Ste. Amour, Ste. Agathe des Monts, P. Q.	"	1.25		

DISTRICT OF THREE RIVERS —

April	3	Liniment de camphre	6867 L. A. Boucher, Joliette, P. Q.	8 ozs	75	Vendor.....	
"	8	Alcool camphré	6882 Pharmacie Geoffrey, Joliette, P. Q.	12 ozs	155	"	
"	18	"	7414 Dr. J. A. Sarrazin, St. Gabriel de Brandon, P. Q.	"	1.00	"	
"	19	"	7422 J. T. Gaudet, Joliette.....	"	75	"	
"	19	"	7423 L. C. Rivest, Joliette.....	"	1.25	"	

LINIMENT OF CAMPHOR

Inspector's Report (is not an expression of opinion)	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rotation at 20° C	Camphor % Calculated	Camphor by Evaporation %	Refractive Index		Halphen test for Cottonseed Oil		No. of Sample
				A 15.5° C	B 25° C			

F. X. W. E. BELAND, INSPECTOR.

.....	41.9	14.53	9.02	1.4777	.....	positive	71001	Apparently contains castor oil. Camphor too low. Adulterated.
.....	46.4	16.10	16.47	1.4734	.....	"	71002	Doubtful.
.....	58.4	20.25	20.04	1.4700	.....	negative	71003	Genuine.
.....	65.5	22.72	22.76	1.4743	.....	positive	71004	Genuine as to camphor content. Made with cotton seed oil.
.....	57.4	19.90	20.52	1.4733	.....	"	71005	Genuine as to camphor content, made with cotton seed oil

CHU. N. CADIEUX, TEMPORARY INSPECTOR.

			Camphor % Gravimetrically					
.....							6421	Is not Liniment of camphor, but a proprietary article, purchased mistakenly.
.....	58.0	20.11	20.75	1.4747	.....	positive	5601	Genuine as to camphor content; made with cotton seed oil.
.....	27.5	9.53	8.82	1.4746	.....	"	5617	Adulterated; Camphor too low.
.....	64.6	22.40	22.07	1.4707	.....	negative	5618	Genuine

D. V. P. LAVALLEE, INSPECTOR.

Sp. gr. of Sample	Polarization in 2 dm. tube at 20° C		Camphor		Straight % Alcohol used		Remarks	
	Deg. Verz.	Angular Deg.	P. c. by wgt.	Grams per 100 cc.				
.....	43.5	15.08	14.14	1.4747	.....	positive	6867	Doubtful.
.....	0.8360	24	8.32	12.61	10.54	95	688:	Not liniment, but spirits of Camphor.
.....	0.9020	20.8	7.21	10.32	9.85	71	741:	" "
.....	0.8214	25.3	8.77	13.28	10.89	97	742:	" "
.....	0.8355	22.	7.63	11.56	9.66	91	742:	" "

Date of Collection	Nature of Sample	Number of Sample	Name and address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts.	Manufacturer	Furnisher

DISTRICT OF EASTERN TOWNSHIPS-

1917								
April	10	Camphre	73838	Paul Thibault, Victoriaville...	12 ozs	50	.....	Champagne & fils, Mont-treal
"	10	"	73839	J. B. Drouin, Victoriaville....	"	1.20	.....	Ed. Morin, Québec
"	10	"	73840	E. Lambert, Victoriaville....	"	130	.....	H. H. Guay, Victoriaville
"	10	"	73842	Joseph Mercier, Victoriaville	"	"	.....	L. Chaput Fils, Montréal.
"	11	"	73883	Paul Tourigny Fils, Danville	"	60	.....	"

DISTRICT OF MONTREAL :-

April	16	Liniment of Camphor.	74746	A. Hanfield, 5628 Sherbrooke St. Notre-Dame de Grace.	12 ozs	1.00	Vendor.....	
"	16	"	74747	A. Quintin, 5272 Sherbrooke St. Notre Dame de Grace.	"	55	Unknown.....	
"	17	"	74748	H. P. Fabien 1175 Wellington St. Verdun.	"	75	Vendor.....	
"	17	"	74749	A. Bourque, 425 LaSalle Rd. Verdun.	"	40	"	
"	17	"	74750	J. W. Lesard, 1400 Wellington. St. Verdun.	"	50	"	

DISTRICT OF VALLEYFIELD :-

May	28	Liniment of Camphor.	74056	Dr. Laroche, Valleyfield.....	12 ozs	1.50	.....
"	28	"	74057	Dr. Gauthier, Valleyfield.....	"	1.20	.....
"	30	"	74058	H. M. Davies, St. Lambert...	10 ozs	50	.....
"	30	"	74064	L. A. A. Giroux, St. Lambert	"	65	.....

DISTRICT OF OTTAWA :-

March	26	Liniment of Camphor	73552	E. H. Brown, Cornwall.....	10 ozs	85	Vendor.....	
April	10	"	73563	S. S. Tripp, Arnprior.....	12 ozs	1.00	"	
"	17	"	73590	W. G. Bolster, Chesterville..	"	1.00	"	
"	17	Camphora-rated oil	73591	The Sanders Snule & Casselman Co. Chesterville.	3 bots	30	Lyman's Ltd. Montreal.	
"	17	"	73592	Fulton Bros, Chesterville....	"	30	E. G. West & Co Toronto.	

LINIMENT OF CAMPHOR.

Inspector's Report (not an expression of opinion)	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rota- tion @ 20° C	Camphor % Calculated	Camphor gra- vimetrically %	Refractive index		Halphen test for Cottonseed Oil		No. of sample
				$\frac{D}{C}$ 15.5° O	$\frac{D}{C}$ 25° C			
E. BLONDIN, TEMPORARY INSPECTOR.								
						Gum Camphor	73838	Not Liniment of camphor
						"	73830	" " "
						"	73840	" " "
						"	73842	" " "
						"	73883	" " "
D. J. KEARNEY, INSPECTOR.								
	9.6	3.30	4.45	1.4749	.....	positive	74746	Adulterated: camphor very low.
	16.5	5.77	6.36	1.4750	.....	"	74747	Adulterated : camphor very low.
	59.0	20.46	20.15	1.4745	.....	"	74748	Genuine as to camphor content : made with cotton seed oil.
	25.7	8.01	10.01	1.4740	.....	"	74750	Adulterated: camphor very low.
	23.4	8.12	8.80	1.4747	.....	"	74750	Adulterated : Camphor very low.
J. J. COSTIGAN, ACTING INSPECTOR.								
Sold as Camphorated Oil.	43.3	15.01	14.03	1.4748	.....	positive	74056	Doubtful.
" " "	14.9	5.16	4.74	1.4748	.....	"	74057	Adulterated : camphor very low.
" " "	46.9	16.26	15.84	1.4712	.....	negative	74058	Doubtful.
" " "	31.1	10.79	10.81	1.4741	.....	positive	74064	Adulterated : Camphor very low.
J. A. RICKEY, INSPECTOR.								
	61.6	21.36	20.38	1.4707	.....	negative	73552	Genuine.
	43.8	15.18	14.11	1.4745	.....	positive	73563	Doubtful.
	48.1	16.67	15.81	1.4745	.....	"	73590	Doubtful
	57.6	19.97	19.07	1.4746	.....	"	73591	Genuine as to camphor content made with cot- ton seed oil.
	70.2	24.34	23.54	1.4735	.....	negative	73592	Genuine.

Date of Collection	Nature of Sample	Number of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity.	cts.	Manufacturer.	Furnisher

DISTRICT OF KINGSTON :—

1917 April	10	Liniment of Camphor	78301	Geen's, Belleville.....	12 ozs	60	Vendor.....	
"	10	"	78302	J. S. McKeown's Belleville..	"	1.50	".....	
"	11	"	78303	The Belleville Pharmacy, Belleville.	"	90	".....	
"	12	"	78304	W. J. B. Davison, Port Hope	9 ozs	60	".....	
"	12	"	78305	T. G. Watson, Port Hope....	12 ozs	1.20	".....	

DISTRICT OF TORONTO —

May	1	Liniment of Camphor.	77783	M. E. Vanzant, 884 Yonge St Toronto.	12 ozs	50	Vendor.....	
"	1	"	77784	G. Tamblin Ltd, 733 Yonge St., Toronto	"	68	".....	
"	1	"	77785	The Robt. Simpson Co., Ltd Yonge & Queen Sts, Toronto	"	60	Vendors.....	
"	1	"	77786	The T. Eaton Co., Ltd, Yonge & Queen Sts, Toronto	"	60	".....	
"	2	"	77787	Liggett Ltd., 224 York St., Toronto.	3 bots	75	".....	

DISTRICT OF HAMILTON :—

April	3	Liniment of Camphor.	77701	E. B. Meally, York & Pearl Sts., Hamilton.	12 ozs	1.00	Vendor.....	
"	4	"	77702	A. E. Dreway, 136 James St., S. Hamilton.	"	1.00	".....	
"	11	"	77703	T. G. Boies, Market & Colborne Sts., Brantford.	"	90	".....	
"	18	"	77704	A. E. Douglas, Wetland.....	"	1.00	Unknown.....	
"	20	"	77705	J. N. Walker, 297 St. Paul St. St. Catharines.	"	75	Vendor.....	

DISTRICT OF WINDSOR:—

April	12	Liniment of Camphor	65157	Ralph E. Scott, Forest.....	12 ozs	75	Vendor.....	
"	17	"	65180	R. M. Morris, Ridgetown....	"	1.20	".....	
"	18	"	65188	S. H. Sadler, Essex.....	"	1.20	".....	
"	19	"	65194	Pickards, Kingsville.....	"	90	".....	
"	19	"	65199	Harry C. Layman, Kingsville	"	1.05	".....	

LINIMENT OF CAMPHOR.

Inspector's Report (Is not an expression of opinion)	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rota- tion α 20°C	Camphor % Calculated	Camphor gra- vimerically %	Refractive Index		Halphen test for Cottonseed Oil		No. of Sample
				B 15.5°C	A 25°C			
JAMES HOGAN, INSPECTOR.								
.....	46.3	16.05	15.85	1.4740	.....	positive	78301 Doubtful.
.....	69.7	24.16	24.13	1.4713	.....	negative	78302 Genuine.
.....	66.4	22.20	22.74	1.4747	.....	positive	78333 Genuine as to camphor content. Made with cotton seed oil.
.....	59.0	20.46	20.21	1.4709	.....	negative	78304 Genuine.
.....	65.6	22.75	23.00	1.4709	.....	"	78305 Genuine.
H. J. DAGER, INSPECTOR.								
Labelled Oil Camphorated.	46.6	15.67	14.76	1.4747	.....	positive	77783 Doubtful.
.....	30.6	10.60	10.17	1.4747	.....	"	77784 Adulterated : camphor very low.
Labelled Camphorated oil.	26.6	9.29	9.70	1.4720	.....	"	77785 Adulterated: Camphor very low.
" " "	59.0	20.46	20.25	1.4704	.....	negative	77786 Genuine.
" " "	20.0	7.24	6.65	1.4746	.....	Positive	77787 Adulterated : Camphor very low.
H. J. DAGER, ACTING INSPECTOR.								
Labelled Camphorated oil.	64.0	22.19	21.33	1.4715	.....	negative	77701 Genuine.
sol. as B. P. Strength.	66.0	22.88	21.70	1.4740	.....	"	77702 Genuine.
.....	48.6	16.35	16.23	1.4703	.....	"	77703 Doubtful.
Labelled Camphorated oil.	50.2	17.38	16.99	1.4742	.....	positive	77704 Doubtful.
Labelled Sterile Campho- rated oil.	60.0	20.25	18.97	1.4707	.....	negative	77705 Genuine.
JOHN TALBOT, INSPECTOR.								
.....	65.0	22.54	21.80	1.4747	.....	positive	65157 Genuine as to camphor content ; made with cotton seed oil.
.....	59.0	20.46	20.96	1.4710	.....	negative	65180 Genuine.
.....	67.6	23.50	24.26	1.4745	.....	positive	65188 Genuine as to camphor content ; made with cotton seed oil.
.....	44.3	15.26	14.56	1.4741	.....	"	65194 Doubtful.
.....	58.4	20.25	20.15	1.4745	.....	"	65199 Genuine as to camphor content ; made with cotton seed oil.

Date of Collection	Nature of Sample	Number of Sample	Name and Address of Vendor	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts	Manufacturer	Furnisher
DISTRICT OF MANITOBA —							
1917 April	2	Liniment of Camphor	75260	E. H. Bate, Transcona.....	12 ozs	75	Vendor.....
"	3	"	75261	Cowan's Drug Store, Portage la Prairie	"	1.30	"
"	3	"	75262	B. M. Canniff, Portage la Prairie	"	1.50	"
"	4	"	75263	Lincoln Park Drug Co. 1469 Main St., Winnipeg	"	75	"
"	4	"	75264	R. H. Gihully, Selkirk.....	"	75	"
DISTRICT OF SASKATCHEWAN—							
April	21	Liniment of Camphor	77014	Fisher's Drug Store, Regina..	12 ozs	1.00	Vendor.....
"	21	"	77016	The MacLachlan Drug Co., Regina.	"	1.00	"
May	15	"	77021	O. S. Mitchell, Weyburn....	"	1.00	"
"	15	"	77022	McKinnon's Ltd, Weyburn.	9 ozs	"	"
"	16	"	77025	W. C. Sweet, Yellow Grass..	12 ozs	75	"
DISTRICT OF ALBERTA—							
April	23	Liniment of Camphor	52607	Jasper Pharmacy, Edmonton	3 bots	90	Vendors.....
"	23	"	52608	The Owl Drug Store Edmon- ton.	"	75	"
"	24	"	52609	Line's Pharmacy, Edmonton	"	75	"
"	24	"	52610	Heath's Drug Store, Edmon- ton	"	1.50	"
May	11	"	52611	C. H. Harry, Calgary.....	"	1.20	"
DISTRICT OF ROCKY MOUNTAINS —							
April	10	Liniment of Camphor.	68366	A. Reeves, Enderby, B. C....	12 ozs	75	Vendor.....
"	12	"	68381	R. E. Berry Ltd., Vernon....	"	1.50	"
"	12	"	68382	S. A. Muir & Co, Vernon....	"	1.25	"
May	3	"	68400	Creston Drug & Book Co., Creston.	"	1.20	"
"	7	"	68415	Cranbrook Book & Drug Co. Cranbrook.	"	1.50	"

LINIMENT OF CAMPHOR

Inspector's Report (is not an expression of opinion)	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rota- tion at 20° C	Camphor % Calculated	Camphor by Evaporation %	Refractive Index		Halphen test for Cottonseed Oil		No. of Sample
				a 15.5° C	a 25° C			
J. B. COSGROVE, INSPECTOR.								
			19.36	1.4709		negative	75260 Genuine.	
			14.16	1.4737		positive	75261 Adulterated : Camphor too low.	
			22.74	1.4707		negative	75262 Genuine.	
			8.65	1.4737		positive	75263 Adulterated : Camphor very low.	
			21.23	1.4707		negative	75264 Genuine.	
I. H. HALL, INSPECTOR.								
			18.63	1.4736		positive	77014 Genuine as to Camphor content; made with cotton seed oil.	
			19.96	1.4705		Negative	77016 Genuine.	
			17.18	1.4706		"	77021 Doubtful.	
			15.48	1.4743		positive	77022 Doubtful.	
			18.24	1.4725		"	77025 Genuine as to Camphor content; made with cotton seed oil.	
A. W. R. MARKLEY, INSPECTOR.								
			17.44	1.4711		negative	52607 Doubtful.	
			8.40	1.4736		positive	52608 Adulterated : Camphor very low.	
			17.16	1.4736		"	52609 Doubtful.	
			18.62	1.4704		negative	52610 Genuine.	
			21.46	1.4736		positive	52611 Genuine as to Camphor content; made with cotton seed oil.	
THOS. PARKER, INSPECTOR.								
	60.0	20.81	20.14	1.4695		positive	68366 Genuine as to camphor content; made with cotton seed oil.	
	57.5	19.05	19.56	1.4675		trace	68381 Genuine.	
	58.0	20.11	20.20	1.4678		negative	68382 Genuine.	
	59.5	20.65	21.36	1.4680		"	68400 Genuine.	
	63.0	21.85	21.12	1.4725		positive	68415 Genuine as to Camphor content; made with cotton seed oil.	

Date of Collection	Nature of Sample	Number of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts.	Manufacturer.	Furnisher

DISTRICT OF VANCOUVER —

1917 April	18	Liniment of Camphor.	75708	Law's Drug Store, Georgia & Main Sts., S. Vancouver.	12 ozs	75	Vendor.	.....
"	18	"	75709	Browne & Beaton, Pender & Main Sts., Vancouver.	"	1.50	Vendors	.....
"	18	"	75710	Capitola Pharmacy, Davie & Thurlow Sts., Vancouver.	"	1.00	"	.....
"	19	"	75711	Central Drug Store 16 Cordova St. W. Vancouver.	"	1.25	"	.....
"	19	"	75712	The Reliable Pharmacy, Commercial Drive & 3rd Ave. Vancouver.	"	90	"	.....

DISTRICT OF VICTORIA—

April	27	Liniment of Camphor.	75765	Dean & Hiscock, Yates & Broad Sts. S. Victoria.	12 ozs	1.50	Vendors	.....
"	27	"	75766	John Cochrane, Yates & Douglas Sts., S. Victoria.	"	1.50	"	.....
"	30	"	75767	Ferry's Drug Store, Fort & Douglas Sts., S. Victoria.	"	1.25	"	.....
"	30	"	75768	W. W. Gardiner, Pandora & Cook Sts., Victoria.	"	1.25	"	.....
"	30	"	75769	W. Jackson & Co., 1503 Douglas St., Victoria.	"	75	"	.....

LINIMENT OF CAMPHOR

Inspector's Report (is not an expression of opinion)	Results of Analysis						Remarks and Opinion of the Chief Analyst	
	Optical rota- tion Δ 20° C	Camphor % Calculated	Camphor by Evaporation %	Refractive Index		Halphen test for Cottonseed Oil		No. of Samples
				Δ 15.5° C	Δ 25° C			

G. G. ARMYTAGE, INSPECTOR.

.....	62.0	21.50	20.38	.....	1.4675	negative	75708	Genuine.
.....	55.0	19.07	18.34	.....	1.4730	positive	75709	Genuine as to Camphor content ; made with cotton seed oil.
.....	85 "	29.47	31.54	.....	1.4680	negative	75710	Genuine.
.....	69.5	24.11	23.52	.....	1.4680	"	75711	Genuine.
.....	76.0	26.26	27.02	.....	1.4680	"	75712	Genuine.

G. G. ARMYTAGE, ACTING INSPECTOR.

.....	74.0	25.66	24.65	.....	1.4675	negative	75765	Genuine.
.....	61.0	21.13	20.85	.....	1.4680	"	75766	Genuine.
.....	56.50	19.59	19.22	.....	1.4675	"	75767	Genuine.
.....	41.0	14.22	13.70	.....	1.4725	positive	75768	Adulterated : Camphor too low.
.....	52.0	18.03	17.40	.....	1.4715	"	75769	Genuine as to Camphor content ; made with cotton seed oil.

