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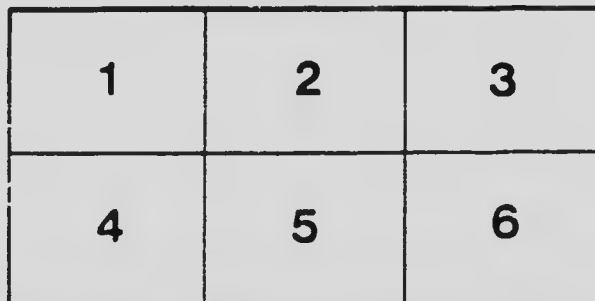
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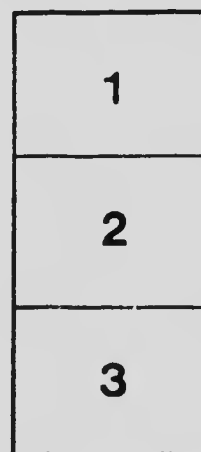
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 221.

ARSENIC AS AN IMPURITY IN DRUGS
(EFFERVESCENT PHOSPHATE OF SODA)



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 221.

ARSENIC AS AN IMPURITY IN DRUGS

(EFFERVESCENT PHOSPHATE OF SODA).

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

OTTAWA, December 10, 1910.

SIR,—Since the historic case of Arsenical beer (Manchester, Eng., 1900), where it was found that the malt used had become contaminated with dangerous amounts of arsenic through having been dried in the fumes from pyritous coal; while glucose used as an adjunct in beer manufacture contained arsenic from sulphuric acid, used in hydrolysis of starch,—many investigations of drugs have been made, specially directed towards determinations of their content of arsenic.

There is no question of intentional adulteration in this matter, but arsenic is so widely distributed in nature, and especially so in the materials employed in the manufacture of sulphuric acid—which latter is, in its turn, a principal agent in many chemical manufactures that, unless special precautions are taken, more than negligible traces of arsenic may occur in very many drugs.

Bulletin 181 of this Department, contains the results of work upon 448 samples (Sulphates of magnesia and soda, and phosphate of soda) examined in June, 1909—Below is a synopsis of results:—

	ARSENIC.				Total Samples.
	None.	Less than one-half milligram per hundred grams.	Less than one milligram per hundred grams.	More than one milligram per hundred grams.	
Sulphate of magnesia.....	120	26	4	0	150
Sulphate of soda.....	99	35	10	6	150
Phosphate of soda.....	117	25	6	0	148
	336	86	20	6	448

Bulletin 202 (March, 1910) reports upon 151 samples of Borax; of which

1	sample	contained	1.0	milligram	per	100	grammes.
7	"	"	0.5	"	"	"	"
3	"	"	0.4	"	"	"	"
1	"	"	0.3	"	"	"	"
4	"	"	0.2	"	"	"	"

The accompanying report deals with an examination of 134 samples of effervescing phosphate of soda, purchased throughout Canada. Of this number, 131 samples (98 per cent of the collection) have been found entirely free from arsenic, or containing quite negligible traces. Of three samples which gave distinct reaction for arsenic, one sample contained one part in 100,000, and two samples, contained half of this amount.

The smallest medicinal dose of arsenic fixed by the British Pharmacopoeia is $\frac{1}{10}$ of a grain; (0.001 gramme). This amount is contained in 100 grammes (about 3 ounces) of the sample 36492. Of this drug $\frac{1}{2}$ to $\frac{1}{4}$ ounce is the usual dose.

I beg to recommend publication of this report as Bulletin 221.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	QTY.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	Inspector's Report (Is not an expression of opinion)	Results of Analysis Arsenic per 100 grains.
				Cent.	Quantity.			
1910.								
Oct. 17	Eff. Phosphate of Soda.	42160	Nat. Drug & Chem. Co., Halifax, N.S.	25	4 oz.	Vendors H. K. Wampole Co., Manufacturers Perth, Ont	Labelled Moyes' Granular Eff. Phosphate of Soda	None.
" 18	"	42161	C. E. Huggins, Halifax, N.S.	25	"	Moyes Chemical Co., Toronto.		
" 18	"	42162	J. St. Clair Combes, Halifax, N.S.	25	"	H. K. Wampole, Perth, Nat. Drug & Chem. Co., Halifax.		
" 18	"	42163	Irwin & Sons, Halifax, N.S.	25	"	Nat. Drug & Chem. Co., Halifax.		
" 18	"	42164	M. D. Logan, Halifax, N.S.	25	"	H. K. Wampole, Perth, Ont.		
" 19	"	42165	Brown Bros. & Co., Halifax, N.S.	30	"			
" 19	"	42166	John Rawley, Halifax, N.S.	25	"			
" 19	"	42167	C. A. Barnstead, Halifax, N.S.	50	"	Jas. Wyeth & Bro., Phil: Lyman Ltd., Montreal		
" 20	"	42168	G. C. McDougall, Kentville, N.S.	25	"	Nat. Drug & Chem. Co., Halifax.		
" 20	"	42169	H. C. Wilson, Windsor, N.S.	25	"	H. K. Wampole, Perth, Ont.		

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

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BULLETIN No. 221. EFFERVESCENT PHOSPHATE OF SODA. *Continued*

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic per 100 grams.
				Quantity.	Per Cent.			
1910.								
Sept. 10	Eff. Phosphate of Soda.	45981	E. A. Foster, Charlottetown	1 lb.	20	Toronto Pharmacy Co., Toronto.		
" 10	"	45982	Geo. E. Hughes, Charlottetown	"	20	H. K. Waupole, Perth, Ont.		
" 10	"	45983	McKinnon Drug Co., Charlottetown.	"	15	Wyeth Bros., Philadelphia.		
" 10	"	45984	Reddin Bros., Charlottetown.	"	15	H. K. Waupole, Perth, Ont.		
" 10	"	45985	J. G. Jamieson, Charlottetown.	"	20	Parke, Davis & Co., Walkerville.		
" 13	"	45986	Johnson & Johnson, Charlottetown.	"	20	H. K. Waupole, Perth, Ont.		
" 23	"	45987	Dr. F. W. Jardine, Kensington	1 bot.	25	Nat. Drug & Chem. Co., St. John, N.S.		
" 24	"	45988	McFadyen & McLellan, Summerside.	1 lb.	20	Parke Davis, Walkerville.		
" 24	"	45989	McNeill Drug Co., Summerside.	1 bot.	25	H. K. Waupole, Perth, Ont.		
" 27	"	45990	Gillis & Sons, Charlottetown.	"	35	Bro. Wyeth & Bro., Philadelphia.		

DISTRICT OF PRINCE EDWARD ISLAND—THEO. MOORE, INSPECTOR.

Name.

Contains Boric phosphate medium

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

State	Quantity	Manufacturer	Address	Weight	Product	Lot No.	Date
Canada	100 grams contain 50 grams sodium phosphate.	Layman Smeat Co., Canadian division tributors. Each teaspoonful con- tains 3 grains of sodium phospho- ate.					
Ont.	20	H. K. Wampole & Co., Perth, Ont.		3 1/2 lbs.	Eff. Phosphate of Soda.	45359	Sept. 15
Ont.	35	Nat. Drug & Chemical Co., Ltd., Montreal, Jno. Wyeth & Bro., Philadelphia.		3 1/2 lbs.	Eff. Phosphate of Soda.	45360	Sept. 15
N.B.	4	E. Clinton Brown, St. John, N.B.		4 oz.	Eff. Phosphate of Soda.	45361	Oct. 4
N.B.	4	Burpee E. Brown, St. John, N.B.		4 oz.	Eff. Phosphate of Soda.	45362	Oct. 4
N.B.	1	A. Chipman Smith & Co., St. John, N.B.		1 lb.	Eff. Phosphate of Soda.	45363	Oct. 4
N.B.	4	R. T. Mack, Fredericton, N.B.		4 oz.	Eff. Phosphate of Soda.	45364	Oct. 4
N.B.	4	D. W. C. Stevens, Woodstock, N.B.		4 oz.	Eff. Phosphate of Soda.	45365	Oct. 4
N.B.	4	Leger Drug Co., Moncton, N.B.		4 oz.	Eff. Phosphate of Soda.	45366	Oct. 4
N.B.	4	J. D. B. F. MacKenzie, Chatham, N.B.		4 oz.	Eff. Phosphate of Soda.	45367	Oct. 4
N.B.	4	A. E. Shaw, Newcastle, N.B.		4 oz.	Eff. Phosphate of Soda.	45368	Oct. 4
Ont.	20	Jno. Wyeth & Bro., Philadelphia.		3 1/2 lbs.	Eff. Phosphate of Soda.	45369	Oct. 4
Ont.	25	Parke Davis & Co., Walkerville.		3 1/2 lbs.	Eff. Phosphate of Soda.	45370	Oct. 4
Ont.	25	H. K. Wampole & Co., Perth, Ont.		3 1/2 lbs.	Eff. Phosphate of Soda.	45371	Oct. 4
Ont.	15	Nat. Drug & Chemical Co., Ltd., Montreal		3 1/2 lbs.	Eff. Phosphate of Soda.	45372	Oct. 4
Ont.	35	H. K. Wampole & Co., Perth, Ont.		3 1/2 lbs.	Eff. Phosphate of Soda.	45373	Oct. 4
Ont.	50	Jno. Wyeth & Bro., Philadelphia.		3 1/2 lbs.	Eff. Phosphate of Soda.	45374	Oct. 4
Ont.	25	H. K. Wampole & Co., Perth, Ont.		3 1/2 lbs.	Eff. Phosphate of Soda.	45375	Oct. 4

BULLETIN No. 221.—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. — Arsenic per 100 grams.
				Quantity.	Cents.	Manufacturer.	Furnisher.		

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

1910.									
Sept. 12	Eff. Phosphate of Soda.	36491	Joseph Masson, 809 rue St. Valier, Quebec.	1 lb.	40	Chas. E. Frost & Co., Montreal.			None.
" 13	"	36492	A. Martineau, 732 rue St. Valier, Quebec.	"	30	"			1 milligram
" 14	"	36493	W. Brunet et Cie, 139 rue St. Joseph, Quebec.	"	18	"			None.
" 14	"	36494	"	"	40	John Wyeth & Bro., Philadelphia, Pa.	Lyman's, Ltd., Montreal.		"
" 14	"	36495	"	"	25	Parke Davis & Co., Walkerville.			"
" 14	"	36496	"	"	27	S. K. Wampole & Co., Perth, Ont.			"
" 15	"	36497	Estate Geo. P. Pionoudon, 122 1/2 rue St. Joseph, Quebec.	"	50	Parke Davis & Co., Walkerville.			"
" 15	"	36498	Ludger E. Martel, 91 rue St. Joseph, Quebec.	"	30	"			"
" 15	"	36499	"	"	45	Wyeth Bros., Philadelphia.			"
" 15	"	36500	"	"	35	H. K. Wampole & Co., Perth, Ont.			"

DISTRICT OF ST. HYACINTHE—J. J. COSTIGAN, ACTING-INSPECTOR.

Sept. 17	Eff. Phosphate Soda.	41033	Dr. Viger, St. Hyacinthe	1/2 lb.	25	.....	.....	None.
"	"	41034	J. H. E. Brodeur, St. Hyacinthe.	1 bot.	25	.....	Nat. Drug & Chem. Co., Ltd.	"
"	"	41035	W. H. Griffiths, Sherbrooke	"	25	.....	Parke Davis & Co.	"
"	"	41036	A. E. DuBerger, "	"	50	.....	Jno. Wyeth & Bro.	"
"	"	41037	J. C. Sutherland, Richmond, P.Q.	1/2 lb.	25	.....	Chas. E. Frost & Co.	"
"	"	41038	J. C. Bedard	1 bot.	50	.....	Jno. Wyeth & Bro.	"
Oct. 4	"	41039	Dr. C. P. Verlun, (Granby)	"	25	.....	Nat. Drug & Chem. Co., Ltd.	"
"	"	41040	T. H. Welch, Waterloo	"	25	.....	Nat. Drug & Chem. Co., Ltd.	"
"	"	41041	A. Vaillancourt	"	35	.....	Parke Davis & Co.	"
"	"	41042	Wright & Co., St. Johns, P.Q.	"	35	.....	Chas. E. Frost & Co., Montreal.	"

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Sept. 15	Eff. Phosphate Soda.	40748	Quenneville & Guerin, 2,002 St. Lawrence B., Montreal.	1 bot.	35	.....	H. K. Wampole & Co., Perth, Ont.	None.
"	"	40749	J. E. Bergeron, M.D., 334 Clark St., Montreal.	2 "	50	.....	Parke Davis & Co.	"
"	"	40750	F. E. Morgan, 181 Fairmount, Montreal.	1 "	25	.....	Chas. E. Frost & Co.	"
"	"	40751	Jno. J. Weinfield, 458 St. Lawrence B., Montreal.	1/2 lb.	25	.....	Nat. Drug & Chem. Co. of Canada, Ltd.	"
"	"	40752	Henry R. Gray, 198 St. Lawrence B., Montreal.	1 bot.	25	.....	Nat. Drug & Chem. Co. of Can., Ltd.	"
"	"	40753	F. E. Morgan, 43 Prince Arthur E., Montreal.	1/2 lb.	25	.....	Jno. Wyeth & Bro.	"
"	"	40754	Romeo Casgrain, 440 St. Catherine E., Montreal.	1 bot.	50	.....	Parke Davis & Co.	"
"	"	40755	J. H. Nault, 42 St. Catherine E., Montreal.	1/2 lb.	25	.....	Nat. Drug & Chem. Co. of Can., Ltd.	"
"	"	40756	X. Bourque, 20 St. Catherine W., Montreal.	1 bot.	25	.....	Wampole	"
"	"	40757	Nat. Pat. Medicine Co., 294 St. Lawrence B., Montreal.	1 "	25	.....	.....	"

BULLETIN NO. 221.--EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Report (Is not an expression of opinion.)	Results of Analysis: Arsenic per 100 grams.
				Quantity	Cents	Manufacturer	Furnisher		
1910.									
Sept. 9	Eff. Phosphate Soda	43121	S. E. Johnston, Armprior	4 lb.	20	Nat. Drug & Chem. Co., Ltd.	Manufacturers		None.
" 13	"	43122	E. H. Elridge, Vankleek Hill	"	20	Wyeth Bro.	Lymana, Ltd., Montreal.	Wyeth's	"
" 14	"	43123	F. A. Girwood, Perth, Ont.	"	20	H. K. Wainpole & Co., Perth, Ont.	Manufacturers		"
" 21	"	43124	James Clark, Renfrew	"	20	Wyeth Bro.	Lymana, Ltd., Montreal.		"
" 27	"	43125	W. F. Garland, Ottawa	"	25	H. K. Wainpole & Co., Ltd., Perth, Ont.	Manufacturers	Wainpole's	"
" 27	"	43126	R. M. Arbutnot, Ottawa	"	20	Wyeth Bro.	Unknown		"
" 28	"	43127	D. Belanger, druggist, Hull, P.Q.	"	15	Nat. Drug & Chem. Co., Ltd.	Manufacturers		"
" 28	"	43128	The Ottawa Nat. Pharmacy Co., Ltd., Dalhousie st., Ottawa.	"	10	Nat. Drug & Chem. Co., Ltd.	"		Less than 1/2 milligram.
" "	"	43129	J. A. Musgrove, Ottawa	"	30	Wyeth Bro.	Lymana, Ltd., Montreal.		None.
" "	"	43130	Allen & Cochrane, Ottawa	"	15	Parke Davis & Co.	Manufacturers		"

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

Oct.	4 Eff. Phosphate of Soda.	46544 F. Hoag, Kingston	1/4 lb.	25	Moyes Chem. Co., Toronto.	None.
"	4	46545 C. S. Trouse, Kingston	"	15	"	"
"	4	46546 A. P. Chown, Kingston	"	15	Toronto Pharmacy Co.	"
"	4	46547 W. W. Gibson, Kingston	3 bots.	75	H. Wampole, Perth, Ont.	"
"	4	46548 L. T. Best, Kingston	1/4 lb.	25	Moyes Chem. Co.	"
"	10	46549 A. C. Green, Belleville	"	15	Parke Davis Co., Walkerville.	"
"	10	46550 J. S. McKnowns, Belleville	"	20	Wampole, Perth.	"
"	11	46551 McDermide & Jury, Peterboro	3 bots.	75	Parke Davis Co., Walkerville.	"
"	11	46552 Warne Drug Co., Peterboro	1/4 lb.	20	Wampole	"
"	11	46553 W. Madill, Peterboro	"	15	Moyes Chem. Co.	"

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

Sept.	13 Eff. Phosphate of Soda.	45159 R. W. W. McIntyre, 388 Queen St. W., Toronto.	4 oz.	25	H. K. Wampole & Co. Ltd., Perth, Ont.	None
"	13	45160 G. W. Ferrer, 233 College St., Toronto	"	25	The Moyes Chemical Co. Ltd., Toronto.	"
"	14	45161 The F. E. Karm Co., Ltd., Queen St. E., Toronto.	4	35	Jno. Wyeth & Bro., Philadelphia.	"
"	16	45162 W. J. Nichol, 170 King St. E., Toronto.	4	35	Toronto Pharmaceutical Ltd., Toronto.	"
"	15	45163 C. P. Plater, 1340 Queen St. W., Toronto.	4	25	Parke Davis & Co., Walkerville.	"
"	20	45164 C. J. Cunningham, 426 Kings St. W., Toronto.	4	25	Nat. Drug & Chemical Co., Hamilton.	"
"	20	45165 Hawkins Ltd., 643 Barton St., Toronto.	4	20	Nat. Drug & Chemical Co., Hamilton.	"
"	22	45166 Dr. Lang and J. J. Gilchrist, Owen Sound.	1	20	H. K. Wampole & Co., Perth, Ont.	"
"	23	45167 D. A. Cameron & Co., Owen Sound	4	25	Lymans Ltd., Montreal and Toronto.	"
"	26	45168 J. E. Willis, Whitby	4	20	E. G. West & Co., Toronto.	"

BULLETIN No. 221—EFFERVESENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis. — Arsenic per 100 grams.
				Quantity	Cent.			
1910.								
Sept. 20	Eff. Phosphate of Soda.	44618	D. S. Marrow, Beeton.	4 lb.	20	Nat. Drug Co., Hamilton Toronto.		None.
"	"	44628	E. A. Robertson, Stratford.	"	20	Moyes Chemical Co., Walkerville.		"
"	"	44637	Chas. Aberhart, Seaforth.	"	25	Parke, Davis & Co., Walkerville.		"
"	"	44639	W. S. R. Holmes, Clinton.	"	25	Parke, Davis & Co., Walkerville.		"
"	"	44643	Nat. Drug Co., Toronto.	"	15	Nat. Drug Co., Toronto.		"
"	"		H. C. Dunlop, Goderich.	"	25	Moyes Chemical Co., Toronto.		"
"	"		Fred A. Hind, Wingham.	"	25	Lyman Bros. & Co., Toronto.		"

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

DISTRICT OF WINNIPEG—JOHN TALBOT, INSPECTOR.

(Oct. 3)	Eff. Phosphate of Soda	42443	F. A. Lenon & Co., St. Thomas.	6 oz.	25	Moyes Chemical Co., Toronto.	Demoyes Chem. Co., Toronto.	None.
" 3	"	42447	W. W. Taylor, St. Thomas.	"	25	Moyes Chemical Co., Toronto.	"	"
" 3	"	42453	R. E. Crane, St. Thomas.	"	20	Moyes Chemical Co., Toronto.	Canada Pharmacal Co., Toronto.	"
" 3	"	42459	J. E. Richards & Co., Aylmer.	4 lb.	15	Moyes Chemical Co., Toronto.	"	"
" 4	"	42467	Em. A. Campbell, Aylmer.	6 oz.	20	Moyes Chemical Co., Toronto.	Shuttlesworth Chemical Co., Toronto.	"
" 4	"	42470	W. A. McCollom, Tilsonburg.	"	25	Parke Davis, Walkerville.	National Drug Co., London.	"
" 5	"	42475	W. S. McDonald, Tilsonburg.	"	30	"	Drug Trading Co., Toronto.	"
" 6	"	42484	J. S. Pepper, Woodstock.	"	40	"	"	"

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Sept. 22	Eff. Phosphate of Soda	43974	National Drug & Chemical Co., Calgary.	1 bot.	20	Parke Davis & Co., Walkerville.	"	"
" 23	"	43975	R. Harvey, Calgary.	"	50	"	"	"
" 23	"	43976	Bruce Drug Store, Calgary.	"	50	H. K. Wainpole & Co., Perth.	"	"
" 24	"	43977	Oliver Bros., Calgary.	"	50	Parke Davis & Co.	"	"
" 24	"	43978	McDermid Drug Co., Ltd., Calgary.	"	50	"	"	"
" 29	"	43979	H. I. Higgs, Wetaskiwin.	"	50	"	"	"
" 29	"	43980	J. H. Walker, Wetaskiwin.	"	50	C. Frost & Co., Montreal.	"	"
" 30	"	43981	E. M. Carpenter, Edmonton.	"	50	J. Wyeth & Bro., Philadelphia.	"	"
" 30	"	43982	Lavell Pharmacy, Edmonton.	"	35	Nat. Drug Co., Ltd.	"	"
" 30	"	43983	J. H. Liver, Edmonton.	"	35	Parke Davis & Co., Walkerville.	"	"

BULLETIN No. 221—EFFERVESCENT PHOSPHATE OF SODA.

Date of Collection	Nature of Sample.	No. of Sample	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic per 100 Grains.
				Quantity.	Cents.			

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1910.								
Oct.	Eff. Phosphate of Soda.	38034	D. D. Curtis & Co., New Westminster.	4 lb.	35	Parko, Davis & Co., Toronto.		None.
"	"	38035	F. A. Muir & Co., New Westminster.	"	35	National Drug & Chemical Co.		"
"	"	38036	Post Office Drug Store, Vancouver.	"	30	H. Wampole & Co., Perth.		"
"	"	38037	Marrett & Reid, Vancouver.	4 "	75	Jno. Wyeth & Co., Montreal.		"
"	"	38038	Vancouver Drug Co., Vancouver.	4 "	35	Chas. E. Frost & Co., Philadelphia.		"
"	"	38039	H. W. Ferguson & Co., Vancouver.	4 "	49	Lorimer & Co., London, Eng.		"
"	"	38040	Campbell Burns Drug Co., Vancouver.	4 "	50	Henderson Bros., Vancouver.		"
"	"	38041	Woods Pharmacy, Vancouver.	4 "	75	W. R. Warner & Co., Philadelphia.		"
"	"	38042	McDuffee Bros., Vancouver.	4 "	50	Jno. Wyeth & Co., Philadelphia.		"
"	"	38043	David Spencer, Ltd., Vancouver.	4 "	35	Chas. E. Frost & Co., Philadelphia.		4 milligram

DISTRICT OF VICTORIA - J. O'SULLIVAN, INSPECTOR.

Oct. 20	E.F. Phosphate of Soda	45000	D. E. Campbell, Victoria	4	"	25	Lyman Sons, Ltd., Montreal.		None.
" 20	"	47501	Jno. Cochrane, Victoria	4	"	25	National Drug & Chemical Co., Ltd., Victoria		"
" 20	"	47502	W. S. Terry, Victoria	4	"	50	Jno. Wyeth & Bro., Philadelphia		"
" 20	"	47503	Hal' y Co., Victoria	4	"	35	Parke, Davis & Co., Walkerville		"
" 20	"	47504	Wm. Jackson & Co., Victoria	4	"	35	Lyman, Ltd., Montreal.		"
" 20	"	47505	F. J. Williams, Victoria	4	"	50	Jno. Wyeth & Bro., Philadelphia		"
" 20	"	47506	Geo. A. Fraser, Victoria	4	"	35	H. K. Wampole & Co., Perth.		"
" 24	"	47507	Neil Drug & Chemical Co., Victoria	4	"	25	National Drug & Chemical Co., Montreal.		"
" 24	"	47508	Dean & Hiscock, Victoria	4	"	40	Parke, Davis & Co., Walkerville		"
" 24	"	47509	B. C. Drug Co., Ltd., Victoria	4	"	25	"		"

