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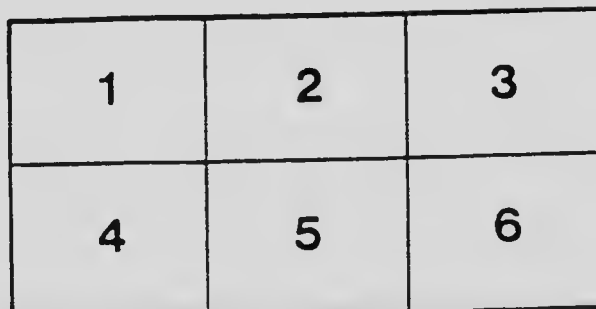
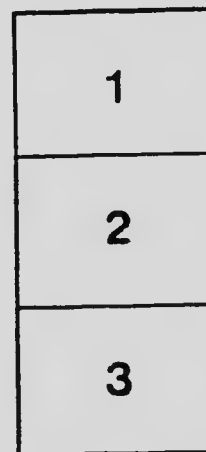
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

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BULLETIN No. 393

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SODIUM PHOSPHATE

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### NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL,  
*Chief Analyst.*

LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

BULLETIN No. 393

SODIUM PHOSPHATE

OTTAWA, February 27, 1918.

J. U. VINCENT, Esq., K.C., B.A., L.Ph.,  
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon Sodium Phosphate, and Effervescent Sodium Phosphate.

*Sodium Phosphate*, otherwise known as *Sodii Phosphas* or *Di-sodium Hydrogen Phosphate*, or *Phosphate of Soda*, is one of the most widely used drugs of the pharmacopœia, and is thus described in the British Pharmacopœia, Edition 1914.

**Characters and Tests.** Transparent, colourless, rhombic prisms, efflorescent. Taste saline. Soluble in 7 parts of water, the solution being slightly alkaline to litmus. Yields the reactions characteristic of sodium and of phosphates. Five grammes dissolved in 50 millilitres of water require for neutralization not less than 13.9 millilitres of N 1 solution of sulphuric acid, the reaction of methyl orange being used as indicator. Yields no characteristic reactions with potassium, ammonium, carbonates, or chlorides, and not more than the slightest reaction for sulphates. Lead limit 5 parts per million. Arsenic limit 5 parts per million.

In the present report, this article is represented by 144 samples.

Non-effloresced crystals of sodium phosphate contain 60.33 per cent of water, and 19.83 per cent of phosphoric acid (stated as phosphoric anhydride,  $P_2O_5$ .)

The salt is highly efflorescent (i.e. loses water of crystallization in contact with air) and in consequence of this fact, its content in water is decreased and its content of phosphoric acid is proportionally augmented on prolonged keeping, unless proper precautions are taken. Thus, the loss of 5 per cent of water would cause the phosphoric acid content to be raised to 20.5 per cent nearly; while loss of 10 per cent water would raise the phosphoric content to 21.1 per cent. By artificial drying to loss of 50 per cent of its water of crystallization, the phosphoric acid content is raised to 28.4 per cent, and it is quite apparent that many of the samples herein reported have been desiccated so as to cause the loss of even more than 50 per cent of normal water of crystallization.

In the manufacture of effervescent sodium phosphate it is necessary to dry the sodium phosphate; and the pharmacopœia prescribes drying to the loss of about 60 per cent of the weight of the salt. This treatment renders it practically anhydrous; and its phosphoric acid content would then be raised to 50 per cent by weight.

By continued exposure to the air, at ordinary temperatures, crystallized sodium phosphate is said to lose five out of its normal twelve molecules of water of crystallization. This would result in a salt containing 26.5 per cent of phosphoric acid. In all samples showing a higher percentage than 26.5, it is probable that these have been intentionally subjected to desiccation, or have been for a long time kept in an abnormally dry atmosphere.

The result of desiccation is to make the sodium phosphate content more than 100 per cent when calculated from the phosphoric acid found. The number thus obtained has however, a practical value; and should be known to the physician, if regard is to be had to the quantity prescribed. Thus, if a prescription calling for 100 parts of sodium phosphate is filled by a partially dried salt containing 26.5 per cent of phosphoric acid, the patient receives about one-third more of the drug than the physician directed. It will be seen, from the table, that a large number of these samples are so abnormal, that a given weight of them corresponds to much more than the same weight of sodium phosphate; in a few cases to nearly double that weight.

Sodium phosphate is prepared by the interaction of acid calcium phosphate with sodium carbonate. The acid calcium phosphate is itself prepared by treating a neutral calcium phosphate with sulphuric acid. It is well known that much of the sulphuric acid of commerce contains arsenic, derived from the raw material (pyrites) employed in its manufacture. In consequence of this fact, arsenic is frequently introduced into acid calcium phosphate, and thence into the sodium phosphate, prepared from it.

The occasional presence of notable amounts of arsenic in sodium phosphate was pointed out in 1909 (see bull. 181). Six samples of the drug were found to contain from 5 to 10 parts of arsenic per million.

The Pharmacopœia fixes the limit for arsenic at 5 parts per million, and this limit is legalized for Canada by Order in Council of October, 1912, (G. 1048). A recent report to the Local Government Board of Great Britain, by Dr. MacFadden, (1916-17) includes certain samples (about 50 in number) of acid calcium phosphate in which the arsenic was excessive, reaching as much as 400 parts per million. In one sample 643 parts per million were found. It is easily to be understood how arsenic, in considerable amount, may pass over into sodium phosphate manufactured from an acid calcium phosphate of such character.

Of 144 samples of sodium phosphate herein reported (Table I), 64 samples are found to contain no arsenic, or only negligible traces. Sixty-eight samples contain amounts not exceeding 5 parts per million, while 12 samples contain above 5 parts per million, the highest amount found being 25 parts.

*Effervescent Sodium Phosphate* (*Sodii Phosphas Effervescens*) is a mixture of sodium phosphate with sodium bi-carbonate and citric and tartaric acids. It is, in effect, a convenient mode of administering sodium phosphate; and contains about one-third of its weight of this salt. The usual dose is about double that for sodium phosphate.

One hundred and sixty-nine (169) samples of this article are reported in Table II. So far as arsenic is concerned, they show as follows:—

	Samples.
No arsenic or traces only. . . . .	74
Less than 5 parts per million. . . . .	94
More than 5 parts per million. . . . .	1

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169

It is evident, however, that these samples are chiefly made from sodium phosphate containing more or less arsenic, and the explanation of a better showing is the fact that only about one-third of the weight of the article consists of sodium phosphate.



A considerable deviation from the pharmacopœal formula is observed in many of these samples; and most of them contain decidedly more sodium phosphate than the formula demands. Two samples (7357 and 5022) are apparently merely sodium phosphate supplied by mistake. Only one sample contains arsenic in sufficient amount to call for comment.

Although none of the samples herein reported can be regarded as positively dangerous, in regard to arsenical content, it is sufficiently apparent that manufacturing chemists must test all samples of sodium phosphate for arsenic, and reject such as show more than the legal limit of 5 parts per million, if they would meet the requirements of the British Pharmacopœia. The United States Pharmacopœia fixes the limit for arsenic at 10 parts per million; and the Adulteration Act (Section 7b), recognizes this Pharmacopœia. When, however, any other standard than that set by the British Pharmacopœia is in question, we expect such authority to be quoted. Failing this, the standard of the British Pharmacopœia governs.

I beg to recommend publication of this report as Bulletin No. 393.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,

*Chief Analyst.*

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BULLETIN No. 393—PHOSPHATE OF SODA. PLAIN—TABLE I.

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.		No. of Sample.	Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.			Phosphoric Acid %	Argentic parts per million.			
July 25	Phosphate of Soda. Plain.	7633	G. A. Burbridge, Halifax.	40	40	Nat. Drug and Chem. Co., Halifax.		29.4	None	102.8	7633	
"	"	7632	C. A. Barnstead, Halifax	50	50	Howard's Mfg. Co., Ltd., England.		29.5	"	103.3	7632	
"	"	7633	Jas. D. Walsh, Halifax.	35	35	Thompson Chem. Co., Baltimore, Md.		23.7	"	119.4	7633	
"	"	7634	P. H. Holdsworth, Digby, N.S.	75	75	E. R. Squibb, Brooklyn, U.S.A.		26.4	"	135.1	7634	
Aug. 8	"	7635	C. A. Ryan, Windsor, N.S.	35	35	Nat. Drug and Chem. Co., Halifax.		29.3	"	102.3	7635	
"	"	7636	Kinley's, Ltd., Bridge-water, N.S.	40	40	"		29.9	"	105.3	7636	
"	"	5376	Carow & Fraser, Glasgow, N.S.	45	45	N. D. and Ch. Co.		29.5	"	103.3	5376	
"	"	5379	E. S. Mackenzie, Glasgow, N.S.	45	45	Mallinckrodt Chem. Works, New York.		22.1	"	111.4	5379	
"	"	5377	T. H. Cochran, Glasgow, N.S.	50	50	"		25.0	0.5	125.8	5377	
"	"	5371	A. C. Bell, New Glasgow, N.S.	35	35	Lynam's, Ltd., Montreal.		23.6	2.0	118.9	5371	
"	"	5372	D. McNeil, Stellarton, N.S.	35	35	Nat. Drug and Chem. Co. of Canada.		23.2	None	116.9	5372	

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR, W. A. PETIPAS, TEMPORARY INSPECTOR.

"	9	"	"	55772	D. McNeil, N.S.	Stellarton, I	35	"	"	"	"	23	2	None	116	9	55772
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DISTRICT OF CAPE BRETON—E. F. MACKENZIE, INSPECTOR.

Aug.	14	Phosphate of Soda	6,880	C. H. Harshman, Sydney, N.B.	50	Lyman's, Ltd., Montreal.	26	1	10	0	131	5	62850	Revenue in excess.
"	23	"	68883	J. J. Turnbull, Sydney, N.B.	50	Nat. Drug Co., Canada	23	9	None		129	5	62883	

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

June	26	Phosphate of Soda	78051	Nat. Drug and Chem. Co., St. John, N.B.	40	Mallinckrodt, Philadelphia.	26	3	None		132	6	78051	
July	3	"	78052	E. Clinton Brown, St. John, N.B.	35	Mallinckrodt, Chem. Works, St. Louis.	23	1	"		116	4	78052	
"	4	"	78053	A. Chipman Smith & Co., St. John, N.B.	35	Nat. Drug and Chem. Co., Ltd., Canada.	25	8	"		130	0	78053	
"	4	"	78054	Moore's Drug Store, St. John, N.B.	75	Lyman's, Ltd., Montreal.	25	7	11	0	126	5	78054	Revenue in excess.
"	9	"	78055	F. W. Mauro, St. John, N.B.	25	Mallinckrodt, Chem. Works, Montreal.	25	7	0	5	129	5	78055	
"	26	"	78056	Johnston & Johnson, St. Stephen, N.B.	35	Powers Weightman & Resengarten, Philadelphia.	26	9	1	0	135	6	78056	
Aug.	8	"	78057	Stevens Bros., Woodstock, N.B.	40	E. G. West & Co., Toronto.	21	1	9	0	106	3	78057	Revenue in excess.
"	24	"	78058	C. P. Hickey, Chatham, N.B.	50	Nat. Drug and Chem. Co., Ltd.	20	9	None		145	3	78058	
"	23	"	78059	Steeves Pharmacy, Moncton, N.B.	35	Mallinckrodt, Chem. Works, St. Louis.	23	6	None		118	9	78059	
"	25	"	78060	Dickson & Troy, Newcastle, N.B.	30	Lyman's, Ltd., Montreal.	22	9	"		115	4	78060	

DISTRICT OF QUEBEC CITY—F. N. W. E. BELAND, INSPECTOR.

June	21	Phosphate of Soda	71226	A. E. Francœur, 394 St. Jean, Quebec.	60	Lyman's Montreal	23	7	1	0	119	4	71226	
"	21	"	71227	Elez. Jolicœur, 138 St. Jean, Quebec.	60	"	22	3	None		112	4	71227	
"	21	"	71228	J. C. Dubé, 15 St. Jean, Quebec.	40	"	26	5	0	5	133	6	71228	
"	21	"	71229	J. C. Laverne, St. Jean and Conillars, Quebec.	65	Mallinckrodt	28	3	1	0	142	6	71229	
"	21	"	71230	Laroché & Co., 4 de la Fabrique, Quebec.	25	Lyman's, Ltd.	21	2	None		106	8	71230	

BULLETIN No. 393—PHOSPHATE OF SODA PLAIN—TABLE I.

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Quantity.	Cents.			Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> ) H <sub>2</sub> O		

DISTRICT OF QUEBEC CITY—Continued.

1917.	June 21	Phosphate of Soda.	71234	Dr. El. Morin, Cote de la Montagne, Quebec.	15	Unknown	Unknown	26.1	None.	131.5	71234	
	" 22	"	71237	W. E. Rogers, 41 Falouré, Quebec.	50	Nat. Drug Co.	Manufacturers.	21.9	"	110.4	71237	
	" 22	"	71242	V. Giroux, 16 St. Pierre, Quebec.	80	"	"	22.0	"	110.8	71242	
	" 22	"	71244	J. Larocque, 303 St. Paul, Quebec.	50	"	"	26.3	"	132.6	71244	

DISTRICT OF QUEBEC PROVINCE—T. GENDREAU, A. PELLETTIER, TEMPORARY INSPECTORS.

June 15	Phosphate of Soda.	7354	A. E. Michon, Montmagny.	75	Na-Dru-Co., Montreal			26.4	None.	133.1	7354	
" 16	"	7356	Dr. J. L. Gagnon, Montmagny.	7		J. F. Livermois, Quebec.		25.6	2.0	129.0	7356	
" 18	"	7358	Dne. Adrienne Talbot, Montmagny.	60	Mallinckrodt Chemical Works, Montreal.			28.9	Trace.	145.6	7358	
July 4	"	5021	E. O. Cloutier, Fraserville, P.Q.	60	Unknown	Unknown		28.4	"	143.1	5021	

July 4  
5021 E. O. Cloutier, Fraserville, P.Q.  
60 Unknown  
Works, Montreal.  
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DISTRICT OF THREE RIVERS DR. V. P. LAVALLEE, INSPECTOR.

June 12	Phosphate of Soda.	7447 J. T. Gaudet, Joliette.	1 lb.	50	Nat. Co., Montreal.	Drug & Chem.	.....	.....	.....	25.4	None.	128.0	7447
" 12	"	7448 Pharmacie Geoffrey, Joliette.	1 "	30	Lyman's, Ltd., Montreal.	.....	.....	.....	.....	33.8	15.0	170.4	7448
" 13	"	7456 Dr. J. A. Sarrazin, Gabriel de Brandon.	St. 1 "	40	Mercé Co., New York.	.....	.....	.....	.....	26.4	1.0	133.1	7456
June 13	Phosphate of Soda.	7457 Dr. J. A. Sarrazin, Gabriel de Brandon.	St. 1 lb.	1.50	John W. Yoth Bro., Philadelphia.	.....	.....	.....	.....	26.2	None.	132.0	7457
" 20	"	7483 J. A. Peltier, Three Rivers.	3bots.	1.50	" "	.....	.....	.....	.....	27.2	"	137.1	7483

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

Aug. 13	Phosphate of Soda.	58483 A. F. Larose, 66 St. Lawrence Boul., Montreal.	1 lb.	50	Mercé's	.....	.....	.....	.....	23.4	None.	117.9	58483
" 13	"	58484 Quebecville, Guerin & Belanger, 1361 St. Catherine St. E., Montreal.	1 "	35	Mallinckrodt Works.	Chem.	.....	.....	.....	22.9	1.0	115.4	58484
" 13	"	58485 Piquin Wilbrod, 640 Mt. Royal Ave. E., Montreal.	1 "	25	Nat. Drug & Chem. Co., Ltd.	.....	.....	.....	.....	23.1	None.	116.4	58485
" 14	"	58486 J. H. Goulden, Bleury St., Montreal.	1 "	45	Lymans Ltd.	.....	.....	.....	.....	24.1	4.0	121.5	58486
" 14	"	58487 " " " "	1 "	50	Howard & Sons	.....	.....	.....	.....	22.3	Trace.	112.4	58487

DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

June 20	Phosphate of Soda.	74321 F. C. Saunders, Bedford, P.Q.	1 lb.	35	.....	.....	.....	.....	.....	28.7	Trace.	144.6	74321
" 21	"	74322 Arm. Bourgeois, St. Johns, P.Q.	1 "	50	Mercé's	.....	.....	.....	.....	26.8	None.	135.1	74322
" 21	"	74323 P. P. Sabourin, St. Johns, P.Q.	1 "	35	.....	.....	.....	.....	.....	24.4	"	123.0	74323
" 26	"	74324 John McLeister, Alexandria, P.Q.	1 "	50	Lymans Ltd.	.....	.....	.....	.....	28.7	"	144.6	74324
" 28	"	74325 Geo. W. Johnston, Cowansville.	1 "	35	N. D. & Chem. Co. Ltd.	.....	.....	.....	.....	23.6	Trace.	118.4	74325
July 11	"	74326 S. E. McGibbon, Hawkesbury.	1 "	53	Mercé's	.....	.....	.....	.....	23.4	3.0	117.0	74326

BULLETIN No. 393—PHOSPHATE OF SODA, PLAIN—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	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.			Remarks and Opinion of the Chief Analyst.
			Name and Address of Vendor.	Name and Address of Manufacturer or Furnisher, as given by the Vendor.			Phosphoric Acid, P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, Parts per million.		Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> ·12 H <sub>2</sub> O).	No. of Samples.		
1917.													
July 11	Phosphate of Soda.	74327	W. A. McKee, Hawkesbury.	W. A. McKee, Hawkesbury.	1 lb.	50	Syquans Ltd.	Syquans Ltd.	.....	21.3	Trace.	107.3	74327
" 13	"	74328	Jacques Fortune, Huntingdon.	Jacques Fortune, Huntingdon.	1 "	25	Nat. Drug & Chem. Co., Ltd.	Nat. Drug & Chem. Co., Ltd.	.....	30.2	3.0	132.2	74328
" 16	"	74329	Dr. J. A. Hénot, Longueuil.	Dr. J. A. Hénot, Longueuil.	1 "	30	" "	" "	.....	39.0	1.0	196.6	74329
" 21	"	74330	L. A. A. Giroux, St. Laurent.	L. A. A. Giroux, St. Laurent.	1 "	35	Mallinckrodt Works, Ltd.	Mallinckrodt Works, Ltd.	.....	28.6	1.0	114.1	74330
DISTRICT OF VALLEYFIELD—Concluded.													
DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.													
June 28	Phosphate of Soda.	77523	Estate W. H. Roger, Rideau St., Ottawa.	Estate W. H. Roger, Rideau St., Ottawa.	32 1/2 lb.	35	Nat. Drug & Chem. Co. Ltd., Ottawa.	Nat. Drug & Chem. Co. Ltd., Ottawa.	Pure.....	20.7	None.	101.3	77523
July 7	"	77545	V. F. Kincaid, Brockville.	V. F. Kincaid, Brockville.	1 "	30	Lymans Ltd., Montreal.	Lymans Ltd., Montreal.	Free from arsenic.	22.0	"	110.9	77545
" 7	"	77546	F. R. Curry, Brockville.	F. R. Curry, Brockville.	1 "	35	Mallinckrodt Works Ltd., Montreal.	Mallinckrodt Works Ltd., Montreal.	Pure U.S.P.	22.5	2.0	113.4	77546

DISTRICT OF KINGSTON - JAS. JOGAN, INSPECTOR.

Date	Phosphate of Soda	Quantity	Name of Manufacturer	Address	Weight	Percentage of Arsenic	Remarks
Jan 14	78300	1 lb.	Estate of C. S. Poirer	Kingston	28.5	5.0	112.6
" 14	78301	1 lb.	T. H. Sargent	Kingston	25.4	25.0	125.0
" 14	78302	1 lb.	A. P. Crown	"	26.0	1.0	131.0
" 11	78303	1 lb.	Mahood Drug Co.	"	27.2	1.0	137.0
" 18	78304	1 lb.	J. P. Doyle	Belleville	32.2	5.0	162.3
" 18	78305	1 lb.	D. M. Waters	"	28.5	None	143.0
" 19	78306	1 lb.	C. B. Allison	Pictou	28.8	Trace	145.1
" 19	78307	1 lb.	E. D. Case	Pictou	26.8	7.0	135.1
" 19	78308	1 lb.	J. B. Dickey	Peterboro	27.4	10.0	133.1
" 19	78309	1 lb.	T. Geo. Watson	Port Hope	27.0	None	136.1

DISTRICT OF TORONTO - H. J. DAGGER, INSPECTOR.

Date	Phosphate of Soda	Quantity	Name of Manufacturer	Address	Weight	Percentage of Arsenic	Remarks
June 21	77880	1 lb.	F. A. Jacobs	361 Broadview Ave., Toronto	29.8	1.0	150.2
" 21	77881	1 lb.	F. C. Fielding	347 Bathurst Ave., Toronto	29.4	11.0	148.2
" 21	77890	1 lb.	Norris Drug Store	569 1/2 Bloor St. W., Toronto	26.6	Trace	131.0
" 21	77891	1 lb.	The Ferragh Drug Co.	Bloor and Bathurst Sts., Toronto	28.0	"	141.1
" 22	77893	1 lb.	F. H. Webb	714 Queen St. E., Toronto	28.0	1.0	141.1
" 22	77894	1 lb.	Owl Drug Store	771 Queen St. E., Toronto	27.8	None	140.1
" 22	77895	1 lb.	M. Sanders	822 Queen St. E., Toronto	23.0	"	120.4
" 23	77896	1 lb.	J. A. Breen	216 Queen St. E., Toronto	30.0	1.0	151.2
" 26	77898	1 lb.	L. K. Liggitt & Co.	224 Yonge St., Toronto	28.0	11.0	141.1
" 26	77899	1 lb.	The T. Eaton Co.	Queen and Yonge Sts., Toronto	29.2	None	147.2

36262-24

BULLETIN No. 393—PHOSPHATE OF SODA, PLAIN—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	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.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
			Manufacturer.				Furnisher.			P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> 12 H <sub>2</sub> O)		

DISTRICT OF HAMILTON—II. J. DAGER, ACTING INSPECTOR.

1917	July 3	Phosphate of Soda.	77934	F. F. Bogardus, Guelph.	1 lb.	35	Thomson Chem. Co., Baltimore.	Pure.	23.2	None.	116.9	77934	
"	4	"	77935	A. B. Petrie, Guelph.	1 "	25	"	"	28.2	12.0	142.1	77935	Arsenic in excess.
"	5	"	77936	A. G. Haesel, Waterloo, Ont.	1 "	35	Mallinckrodt Chem. Works, St. Louis.	Pure.	24.1	Trace.	121.5	77936	
"	9	"	77937	C. A. C. Cameron, Brant forl.	1 "	25	E. G. W. & Co., Toronto.	"	21.7	9.0	109.4	77937	Arsenic in excess.
"	9	"	77938	T. G. Bowler, Brantford.	1 "	32	Mereck & Co., New York.	"	30.6	1.0	154.2	77938	
"	11	"	77940	A. W. Garner, St. Catharines.	1 "	25	Lynan Bros & Co., Ltd., Toronto.	"	20.1	None.	101.3	77940	
"	11	"	77941	Wm. Erskine, St. Catharines.	1 "	35	E. G. West & Co., Toronto.	Pure B.P.	25.8	4.0	130.0	77941	
"	12	"	77943	E. B. Neally, 165 King St. E., Hamilton.	1 "	52	F. P. Squibb, New York.	"	24.5	1.0	123.5	77943	
"	12	"	77953	J. A. Reche, John and Main Sts., Hamilton.	1 "	35	Nat. Drug & Chem. Co., Ltd., Hamilton.	"	26.2	2.0	132.0	77953	
"	13	"	77986	T. Sweet, 270 King St. W., Hamilton.	1 "	35	Powers Weightman & Rosengarten, Philadelphia.	U. S. P.	28.0	5.0	141.1	77986	



DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

June 12	Phosphate of Soda.	65211	W. S. Howey, Exeter.	1 lb.	35	Powers Weightman & Rosengarten, Philadelphia.	.....	.....	24 3	5 0	122 5	65211
" 13	"	65224	J. E. Hovey, Clinton.	1 "	25	Mallinckrodt, New York.	Pure	.....	27 1	None.	138 1	65224
" 13	"	65226	W. S. R. Holmes, Clinton.	1 "	35	Mallinckrodt, Montreal.	"	.....	26 1	2 0	131 5	65226
" 14	"	65234	J. A. Campbell, Goderich.	1 "	25	E. G. West & Co., Toronto.	"	.....	27 9	8 0	140 6	65234
" 14	"	65235	E. R. Wigle, Goderich.	1 "	25	Powers Weightman & Rosengarten, Philadelphia.	.....	.....	24 6	1 0	124 0	65235
" 14	"	65238	H. C. Dunlop, Goderich.	1 "	22	Nat. Drug Co.	.....	.....	25 6	None.	129 0	65238
" 15	"	65248	Pepper's Drug Store, Woodstock, Ont.	1 "	35	Powers Weightman & Rosengarten, Philadelphia.	.....	.....	26 5	1 0	134 0	65248
" 18	"	65251	Standard Drug Co., London, Ont.	1 "	25	Nat. Drug Co.	Pure	.....	27 1	None.	136 6	65251
" 18	"	65256	H. J. Childs, London East.	1 "	25	"	.....	.....	26 9	1 0	135 6	65256
" 19	"	65256	Cook's Red Drug Store, St. Thomas.	1 "	35	Mallinckrodt Chem. Works, St. Louis.	Pure	.....	26 5	1 0	134 0	65256

Arsenic in excess.

DISTRICT OF NORTHERN ONTARIO—THOS. E. ARMSTRONG, INSPECTOR.

July 3	Phosphate of Soda	78604	C. A. Wismer, New Liskard.	1 lb.	80	Nat. Drug Co., Toronto.	.....	.....	26 0	1 0	131 0	78604
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DISTRICT OF MANITOBA—J. B. COSGROVE, INSPECTOR.

June 27	Phosphate of Soda	75358	L. A. Rues, 1682 1/2 Portage Ave., Winnipeg.	1 "	35	Nat. Drug Co., Winnipeg.	.....	.....	26 0	1 0	131 0	75358
" 27	"	75359	G. A. Walker, 9 Provencher Ave., St. Boniface.	1 "	50	Lyman's, Montreal.	.....	.....	27 0	2 0	136 1	75359
" 27	"	75360	Sargent Pharmacy, 724 Sargent Ave., Winnipeg.	1 "	40	Nat. Drug Co., Winnipeg.	.....	.....	29 0	1 0	146 2	75360
" 29	"	75361	Public Drug Co., 560 Main St., Winnipeg.	1 "	45	Mallinckrodt Chem. Works, Montreal.	.....	.....	25 0	3 0	126 0	75361
" 29	"	75362	Andrews, Arcelle, Winnipeg.	1 "	69	Unknown	Made in England.	.....	32 0	4 0	162 0	75362

BULLETIN No. 393—PHOSPHATE OF SODA, PLAIN—TABLE I.

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.				Remarks and Opinion of the Chief Analyst.
				Quantity.	Cent.	Manufacturer.	Furnisher.		Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) per cent.	Arsenic, parts per million.	Sodium Phosphate (NaPO <sub>3</sub> ) H <sub>2</sub> O.	No. of Sample.	

DISTRICT OF MANITOBA—Continued.

1917.	July 4	Phosphate of Soda	75363	Central Drug Hall, Loissevain.	40		Nat. Drug Co., Winnipeg.	.....	22.0	3.0	110.9	75363	
"	"	"	75364	McPhee's Drug Store, Brandon.	75		Nat. Drug Co., Winnipeg.	.....	27.0	3.0	136.1	75364	
"	"	"	75365	Clements Drug Store, Brandon.	50		Powers Weightman, Philadelphia.	.....	25.0	4.0	126.0	75365	
"	"	"	75366	Hutchings Drug Store, 658 Tenth St., Brandon.	50		Nat. Drug Co., Winnipeg.	.....	25.5	3.0	128.5	75366	
Aug. 1	"	"	75367	Doc. A. Lawson, Carberry.	50		E. G. West & Co., Toronto.	.....	24.0	4.0	121.0	75367	
"	"	"	75360	Gordon Mitchell Co., 676 1/2 Main St., Winnipeg.	50		C. E. Frost, Montreal.	.....	26.0	4.0	131.0	75360	

DISTRICT OF SASKATCHEWAN—L. H. HALL, INSPECTOR.

June 14	Phosphate of Soda	77011	H. S. Hamilton, Moose Jaw.	50		Nat. Drug & Chem. Co., Montreal.	.....	28.0	4.0	141.1	77011	
"	"	77002	Kelly Drug Co., Regina.	50		E. G. West & Co., Toronto.	.....	26.0	5.0	131.0	77002	
"	"	77005	Canada Drug & Book Co., Regina.	35		Nat. Drug & Chem. Co., Montreal.	.....	24.0	5.0	121.0	77005	
Aug. 7	"	"	Harry J. Winton, Govan.	50		Nat. Drug & Chem. Co., Toronto.	.....	29.0	3.0	146.2	77083	
"	"	"	H. A. Davidson, Moose Jaw.	50		Mallinckrodt's Chem. Works, Montreal.	.....	23.5	3.0	118.4	77091	



BULLETIN No. 393—PHOSPHATE OF SODA, PLAIN—TABLE I.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
				Quantity.	Cent.			Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> 12 H <sub>2</sub> O)	
1917.	June 1- Phosphate of Soda.	75791	C. Muddell, 37 Hastings St. E., Vancouver.	50	50	Mallinckrodt Chem. Works, St. Louis.	.....	20.00	0.5	100.8	75794
" 18	" "	75795	Red Star Drug Store, 11 Cordova St., W., Vancouver.	40	40	" "	.....	20.64	0.7	104.0	75795
" 26	" "	75796	The Reliable Pharmacy, 1850 Commercial Drive, Vancouver.	50	50	Howard & Sons, Ltd., London, Eng.	.....	20.80	Nil	104.8	75796
" 26	" "	75797	Vanc. Drug Co., 176.1 Commercial Drive, Vancouver.	30	30	The Lyman Bros. & Co., Ltd., Toronto.	.....	20.96	0.7	105.6	75797
" 2	" "	75798	R. E. Frost, 1403 Commercial Drive, Vancouver.	50	50	Nat. Drug. & Chem. Co., Ltd.	.....	20.16	Trace	101.6	75798
" 26	" "	75799	W. B. Hunter, 1003 Commercial Drive, Vancouver.	35	35	" "	.....	20.88	0.7	105.2	75799
" 27	" "	75800	Central Drug Store, 161 Cordova St., W., Vancouver.	40	40	Mallinckrodt Chem. Works St. Louis.	.....	20.72	Trace	104.4	75800
" 27	" "	75801	H. M. Smith, 2286 4th Ave., W., Vancouver.	42	42	" "	.....	20.84	"	104.8	75801

DISTRICT OF VANCOUVER—Concluded.

## DISTRICT OF VICTORIA—G. G. ARMYTAGE, INSPECTOR.

July	27	"	"	75861	Hi. M. Smith, 2286 4th Ave., Vancouver.	1 lb.	42	"	"	"	20.84	"	104.8	75801
"	26	"	"	75912	F. C. Stearman, Nanaimo	1 lb.	50	Nat. Drug & Chem. Co., Ltd.	"	"	20.72	Trace.	104.4	75912
"	26	"	"	75913	W. Jackson, 1503 Douglas St., Victoria.	1 lb.	40	Mallinckrodt Works, St. Louis.	Chem.	"	21.12	Nil	106.1	75913
"	26	"	"	75914	Dean & Hiscocks, 627 Yates St., Victoria.	1 lb.	50	Lyman, Ltd., Montreal.	"	"	25.36	Trace.	127.8	75914
"	26	"	"	75915	Thos. Sholtz, 589 Johnson St., Victoria.	1 lb.	40	Nat. Drug & Chem. Co., Ltd.	Chem.	"	24.06	"	121.4	75915
"	26	"	"	75916	H. W. Brown & Co., Esquimalt Road and Head St., Vancouver.	1 lb.	40	Mallinckrodt Works, St. Louis.	Chem.	"	24.40	Nil	123.0	75916
"	26	"	"	75917	W. W. Gardiner, Pandora and Cook Sts., Victoria.	1 lb.	50	"	"	"	24.48	Trace.	123.3	75917

BULLETIN No. 393—PHOSPHATE OF SODA EFFERVESCENT—TABLE II.

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.			Remarks and Opinion of the Chief Analyst.
				Quantity.	Cent.	Manufacturer.	Furnisher.		Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Argentic parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> · 12 H <sub>2</sub> O)	
July 20	Phosphate of Soda (Eff.)	76641	Nat. Drug & Chem. Co., Halifax.	1 lb.	1.13	Vendors			10.50	None	52.9	76641
" 27	"	76642	C. A. Barnston, Halifax.	3/4	75	Vendor			6.65	"	33.5	76642
" 25	"	76643	Brown Bros., Halifax.	3/4	1.06	H. K. Wampole Co., Sarnia, Ont.	Manufacturers.		8.65	"	43.6	76643
" 25	"	76644	G. A. Burbridge, Halifax.	3/4	1.00	C. E. Frosst Co., Montreal.	"		8.70	"	43.8	76644
" 26	"	76645	Jas. D. Walsh, Halifax.	3/4	1.50	John Wyeth, Philadelphia.	"		6.05	"	30.5	76645
Aug. 9	"	76646	G. C. McDougall, Kentville, N.S.	3/4	90	Nat. Drug & Chem. Co., Halifax.	"		10.00	"	50.4	76646
" 10	"	76647	H. E. Wilson, Windsor, N.S.	3/4	90	H. K. Wampole Co., Sarnia, Ont.	"		8.60	"	43.3	76647
" 8	"	53758	Carew & Fraser, New Glasgow, N.S.	12 ozs.	1.20	Parke, Davis & Co., Montreal.			9.10	"	45.9	53758
" 8	"	53759	E. S. MacKenzie, New Glasgow, N.S.	1 lb.	1.00	Nat. Drug & Chem. Co., Montreal.	Manufacturers.		10.05	"	50.6	53759
" 9	"	53760	T. H. Cochrane, New Glasgow, N.S.	3 lbs.	1.50	H. K. Wampole & Co., Perth, Ont.	"		8.85	"	44.6	53760
" 9	"	53761	A. C. Bell, New Glasgow, N.S.	3	1.05	John Wyeth & Bros., Philadelphia.	Lyman's Ltd Montreal.		6.50	"	32.8	53761
" 9	"	53762	J. Burke Vikens, Stellarton, N.S.	3	1.05	C. E. Frosst & Co., Montreal.	Manufacturers.		8.85	"	44.6	53762
" 9	"	53763	D. MacNeil, Stellarton, N.S.	3	1.20	H. K. Wampole & Co., Perth, Ont.	"		9.15	"	46.1	53763
" 9	"	53764	" " " "	3	1.20	Moyes Chem. Co., Toronto.	"		6.75	"	34.0	53764
" 9	"	53765	" " " "	3	1.20	C. E. Frosst, Co., Montreal.	"		9.10	"	45.9	53765

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR; W. A. PETIPAS, TEMPORARY INSPECTOR.

DISTRICT OF CAPE BRETON - E. F. MACKENZIE, INSPECTOR

53764	"	3	1.20	Moyes Chem. Co., Tor. onto.	6.75	None	45.4	63881
53765	"	3	1.20	C. E. Frosst, Co., Montreal.	9.10	6.45	32.5	63882
63881	Phosphate of Soda (Eff.)		12 oz	F. J. Hardison, Sydney, C.B.				
63882	"		12 "	P. M. F. Carter, Sydney, C.B.				
78061	Phosphate of Soda (Eff.)		1 lb.	Nat. Drug & Chem. Co., St. John, N.B.				
78062	"		3 lbs.	E. Clinton Brown, St. John, N.B.				
78063	"		3 "	A. Chipman-Smith & Co., St. John, N.B.				
78064	"		3 "	Moore's Drug Store, St. John, N.B.				
78065	"		3 "	Watson's Drug Store, St. John, N.B.				
78066	"		3 "	Johnston & Johnston, St. John, N.B.				
78067	"		3 "	Wade Drug Co., Ltd., Perth, N.B.				
78068	"		3 "	B. J. Sharp, Sussex, N.B.				
78069	"		3 "	J. D. B. F. McKenzie, Chatham, N.B.				
78070	"		3 "	Dickinson & Troy, Newcastle, N.B.				

DISTRICT OF NEW BRUNSWICK - JOHN C. FERGUSON, INSPECTOR

June 26	Phosphate of Soda (Eff.)		1 lb.	John Wyeth & Bros., Philadelphia	6.45	None	32.5	78061
July 3	"		3 lbs.	H. K. Waupole & Co., Ltd., Perth, Ont.	9.20	"	47.4	78062
" 4	"		3 "	Vendors, Perth, Ont.	9.10	"	45.9	78063
" 4	"		3 "	Parke, Davis & Co., Walkerville, Ont.	9.10	"	45.9	78064
" 9	"		3 "	The Moyes Chem. Co., Toronto.	8.25	None	41.6	78065
" 26	"		3 "	Wyeth & Bros., Montreal.	6.50	"	32.8	78066
Aug. 10	"		3 "	Parke, Davis & Co., Walkerville.	8.80	"	44.4	78067
" 22	"		3 "	H. K. Waupole & Co., Perth, Ont.	9.15	"	46.1	78068
" 24	"		3 "	John Wyeth & Bros., Philadelphia.	6.10	"	30.7	78069
" 25	"		3 "	Parke Davis & Co., Ltd., Montreal.	8.85	"	44.6	78070

DISTRICT OF QUEBEC CITY - F. X. W. E. BELAND, INSPECTOR

June 21	Phosphate of Soda, Eff.		1 lb.	J. A. Leclerc, 516 St. Jean, Quebec.	8.55	None	43.1	71225
" 21	"		1 "	H. W. Kinnear, 135 St. Jean, Quebec.	5.60	"	28.2	71228
" 21	"		1 "	W. B. Rogers, 44 Fabrique, Quebec.	8.65	"	43.6	71231
" 21	"		1 "	Dr. Ed. Morin, Cote de la Montagne, Quebec.	8.75	"	44.1	71233
" 22	"		1 "	J. E. Livermore, St. Jean & Comilard, Quebec.	8.65	"	43.6	71235

BULLETIN No. 393—PHOSPHATE OF SODA, EFFERVESCENT—TABLE II.

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				Quantity.	Cents.	Manufacturer.	Furnisher.		Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> ·12H <sub>2</sub> O)	
1917												
June 22	Phosphate of Soda, Eff.	71236	J. C. Turcot, 117 St. Jean, Quebec.	1 lb.	1 50	W. Horner & Co.	Mrs.		8.90	None	41.4	71236
"	"	71238	V. Giroux, 16 St. Pierre, Quebec.	1 "	1 20	F. W. Honer	"		8.80	"	41.4	71238
"	"	71239	A. E. Francœur, 394 St. Jean, Quebec.	1 "	1 20	Wampole	Mrs.		9.45	"	47.6	71239
"	"	71240	M. Joliveau, 388 St. Jean, Quebec.	1 "	1 50	F. W. Honer	"		9.00	"	45.4	71240
"	Composite Phosphate of Soda, Eff.	71241	J. C. Dubé, 132 St. Jean, Quebec.	1 "	1 59	"	"		9.10	"	45.9	71241
"	Phosphate of Soda, Eff.	71243	J. Laroche, 303 St. Paul, Quebec.	1 "	1 56	John Wyeth & Bros.	"		6.70	"	33.8	71243

DISTRICT OF QUEBEC CITY—Concluded.

DISTRICT OF QUEBEC PROVINCE—N. GADIEUX, T. GENDREAU, J. H. RIOUX, TEMPORARY INSPECTORS.

June 18	Phosphate of Soda, Eff.	5630	Eug. Fournier, St. Jerome, P.Q.	3 lot.	1 05	Nat. Drug Co.	"		10.9	Trace.	54.9	5630
"	"	5638	J. M. Drew, M.D., 100 St. Pierre, P.Q.	3 "	1 00	"	"		11.2	"	56.4	5638
"	"	7355	A. E. Michon, Montmagny, P.Q.	3 "	1 50	Toronto Pharmacal Ltd., Toronto.	"		11.0	None.	55.4	7355
July 10	"	7713	Dr. Lepage, Rimouski.	3 pks.	1 00	"	"		10.3	Trace.	51.9	7713
"	"	7717	H. Sirois, Trois Pistoles.	3 bot.	1 54	"	"		11.4	None.	57.4	7717



" 11	"	"	7717	H. Stroz, Trois Pistoles, 3 bot.	1 54	"	"	"	"	"	11-4	None	57-4	7717
June 16	Phosphate of Soda, Eff.	7457	Dr. J. L. Gagnon, Montmagny, P. Q.	3 bots.	2 25	C. E. Frosst, Montreal	"	"	"	"	27 0	None	136 0	7457
July 4	"	5023	E. G. Gauthier, Fraser ville, P. Q.	1 lb.	1 75	Unknown	"	"	"	"	21 0	1 0	130 9	5022

DISTRICT OF THREE RIVERS—Dr. V. P. LAVALLEE, INSPECTOR.

June 12	Phosphate of Soda, Eff.	7454	L. A. Becher, Joliette	12 ozs.	1 25	Parke Davis & Co., Walkerville	"	"	"	"	10 2	1 0	51 4	7454
" 20	"	7482	Pharmacie Normand, Three Rivers	1 lb.	1 50	John Wyeth Bro., Philadelphia	"	"	"	"	8 5	3 0	42 8	7482
" 20	"	7483	J. A. Peltier, Three Rivers	1 "	35	Nat. Drug & Chem. Co., Montreal	"	"	"	"	8 3	1 0	41 8	7484
" 21	"	7492	J. E. Chevalier, Sorel	3 pkts.	1 35	Lymans Ltd., Montreal	"	"	"	"	8 3	1 0	41 8	7492
" 21	"	7491	W. Weillbrenner, Sorel	3 "	1 05	Nat. Drug & Chem. Co., Montreal	"	"	"	"	10 6	2 0	53 4	7494

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

Aug. 13	Phosphate of Soda, Eff.	58493	A. F. Larose, 65 St. Lawrence Blvd., Montreal	3 bots.	1 50	H. K. Wainpole Ltd.	"	"	"	"	9 6	2 0	48 4	58493
" 13	"	58494	F. W. Horner, 1211 St. Ulban St., Montreal	3 "	80	Vendor	"	"	"	"	9 2	None	50 0	58494
" 13	"	58495	Paquin Willard, 640 Mt. Royal Ave. E., Montreal	1 lb.	1 25	John Wyeth & Bro.	"	"	"	"	9 5	2 0	47 9	58495
" 14	"	58496	P. R. Thomas, Bleury St., Montreal	3 bots.	1 50	Penslar Chem. Co.	"	"	"	"	9 3	None	46 9	58496
" 15	"	58197	M. Albert, 911 St. Arce Boul., Montreal	3 "	1 50	C. E. Frosst & Co.	"	"	"	"	10 9	2 0	51 9	58497

DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

June 20	Phosphate of Soda, Eff.	74331	F. C. Saunders, Bedford, P. Q.	3 bots.	1 35	Frank W. Horner, Ltd., Montreal	"	"	"	"	9 1	2 0	45 9	74331
" 21	"	74332	Arin Bourgeois, St. Johns, P. Q.	3 "	1 50	Parke Davis & Co.	"	"	"	"	10 0	1 0	50 4	74332
" 21	"	74333	P. P. Sabourin, St. Johns, P. Q.	1 lb.	1 25	"	"	"	"	"	11 1	2 0	55 9	74333
" 26	"	74334	B. Ostrum & Son, Alexandria, P. Q.	3 bots.	1 20	John Wyeth & Bro.	"	"	"	"	8 0	1 0	40 3	74334
" 26	"	74335	J. Sh. McLeister, Alexandria	3 "	1 05	Lymans, Ltd.	"	"	"	"	10 9	Trace	50 4	74335

BULLETIN No. 393—PHOSPHATE OF SODA, EFFERVESCENT—TABLE II.

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 no. an expression of opinion).	Results of Analysis.			Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Phosphoric Acid 1% per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> 12 H <sub>2</sub> O)	

DISTRICT OF VALLEYFIELD—Concluded.

1917.	June 28	Phosphate of Soda, Eff.	Geo. W. Johnston, Cowansville.	3 bds.	1 05				10.5	2.0	52.9	74336	
	" 30	"	Dr. Laroche, Valleyfield.	3 "	2 25	Parke Davis & Co.			11.1	None	55.9	74337	
	July 11	"	S. E. McGibbon, Hawkesbury.	2 "	85	"			9.5	"	47.9	74338	
	" 11	"	Dr. J. A. Huot, Levesqueville.	3 "	1 05	Lymans, Ltd.			12.5	"	63.0	74339	
	" 16	"	James Fortune, Huntingdon.	3 "	1 50	Davis Lawrence Co.			10.2	3.0	51.1	74340	

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

	June 26	Phosphate of Soda, Eff.	T. Beattie, Bronson Ave., Ottawa.	3 bds.	1 20	H. K. Wampole, Perth.		190 gms. contain 30 gms. Sod. Phos. Each teaspoonful contains 3 grams Sod. Phos. One dram equals 30 grains of Sod. Phos.	10.5	1.0	52.9	77520	
	" 27	"	W. A. Henderson, Bank and Gladstone, Ottawa.	3 "	1 20	F. W. Horner, Ltd., Montreal.			9.6	4.0	48.4	77524	
	" 30	"	C. A. McHaffie, Cornwall.	3 "	1 05	John Wyeth & Bro., Philadelphia.			9.0	2.0	45.4	77525	

" 30	"	77525	C. A. McHaffie, Cornwall, 3 "	1 05	John Wyeth & Bro., Philadelphia.	9 0	2 0	45 4	77525
July 15	"	77556	Wallace & Co., Pembroke, 10 ozs.	45	Nat. Drug & Chem. Co., Ottawa.	50 per cent Soda Phos.	2 0	80 6	77556
" 28	"	77562	L. A. Wilson, Smith's Falls.	78	Toronto Pharmaceutical Co., Ltd., Toronto.	Guaranteed to contain a pro- per amount of active prin- ciple.	3 0	69 5	77562

DISTRICT OF KINGSTON—JAMES HOGAN, INSPECTOR.

June 13	Phosphate of Soda. Eff.	72558	W. E. Austin, Kingston, 3 bots.	1 05	Wainpole & Co., Perth.	9 8	2 0	49 4	72558
" 15	"	72559	Estates C. S. Prouse, Kings- ton.	1 05	Parks Davis Co., Wal- kerville.	10 0	None	50 4	72559
" 14	"	72560	T. H. Sargent, Kingston, 3 "	1 05	John Wyeth & Bro., Philadelphia.	7 6	Trace.	38 3	72560
" 14	"	72561	A. P. Chown, Kingston, 3 "	90	" " "	10 0	1 0	50 4	72561
" 14	"	72562	Mahood Drug Co., Kings- ton.	90	" " "	10 1	2 0	50 9	72562
" 14	"	72563	L. J. Best, Kingston, 3 "	1 05	E. G. West, Toronto.	7 9	3 0	39 8	72563
" 18	"	72564	F. C. Clarke, Belleville, 3 "	75	H. Wainpole & Co., Perth.	11 0	1 0	55 4	72564
" 19	"	72565	W. A. Wright, Ficton, 3 "	1 05	" " "	9 5	4 0	52 9	72565
" 19	"	72566	E. F. Fraser, Trenton, 3 "	1 05	The Moyes Chem. Co., Toronto.	9 7	2 0	48 9	72566
" 19	"	72567	J. Sharie, Trenton, 3 "	1 05	H. Wainpole & Co., Perth.	11 4	2 0	57 4	72567

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

June 21	Phosphate of Soda. Eff.	77878	G. Tambllyn Ltd., 369 3 bots. Broadview Ave., Toronto.	75	H. K. Wainpole & Co., Perth.	9 2	3 0	46 4	77878
" 21	"	77879	T. Crittenden, 601 Sher- bourne St., Toronto.	1 26	The Moyes Chem. Co. Ltd., Toronto.	9 3	2 0	46 9	77879
" 21	"	77882	R. Tutill, 911 Bloor St. W., Toronto.	1 26	F. W. Horner Ltd., Montreal.	9 0	None	45 4	77882
" 22	"	77880	W. H. Robson, 296 Ger- ard St. E., Toronto.	1 03	Parks Davis Co., Wal- kerville.	9 0	Trace.	45 4	77880
" 22	"	77882	J. R. Hume, 1213 Dundas St. W., Toronto.	1 09	Vendor, "	9 4	"	46 4	77882
" 23	"	77883	W. H. Robson, 296 Ger- ard St. E., Toronto.	1 11	C. E. Frost & Co., Montreal.	10 4	3 0	52 4	77883

BULLETIN No. 393—PHOSPHATE OF SODA, EFFERVESCENT—TABLE II.

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.				Remarks and Opinion of the Chief Analyst.	
				Quantity.	Cents.	Manufacturer.	Furnisher.		Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate Na <sub>2</sub> HPO <sub>4</sub> ·12H <sub>2</sub> O.	No. of Sample.		
DISTRICT OF TORONTO—Concluded.														
1917.														
June 23	Phosphate of Soda, Eff.	77884	The Robt. Simpson Drug Co. Ltd., Queen and Yonge Sts., Toronto.	3	75	Vendors.....			9.3	3.0	46.9	77884		
"	"	77885	The F. E. Kain Co. Ltd., Queen and Victoria, Toronto.	3	78	Nat. Drug & Chem. Co. Ltd., Toronto.			17.6	4.0	88.7	77885		
"	"	77886	W. L. Wood, Gerrard and Church Sts., Toronto.	3	1.35	H. Mulford & Co., New York.		100 per cent pure.	14.8	1.0	74.6	77886		
"	"	77887	E. E. Lutherford, King St. E., Toronto.	3	1.00	H. K. Wampole Co. Ltd., Perth.		B. P.	9.8	None	49.4	77887		
DISTRICT OF HAMILTON—H. J. DAGER, ACTING INSPECTOR.														
July	3 Phosphate of Soda, Eff.	77914	W. H. Beattie, Guelph...	3	1.11	H. K. Wampole Co., Perth.			10.0	4.0	50.4	77944		
"	"	77945	J. D. McKee, Guelph...	3	1.50	John Wyeth & Bros., Philadelphia.			7.8	1.0	39.3	77945		
"	"	77946	E. M. Devitt, Waterloo, O.	3	1.26	Pennular Chem. Co., Detroit.			9.2	4.0	46.4	77946		
"	"	77947	J. H. Shoemaker, chener.	3	1.00	Lyman's, Ltd., Montreal.		B. P.	10.9	2.0	54.9	77947		
"	"	77948	Butler Bros., Brantford...	3	1.11	E. G. West & Co., Toronto.			9.6	3.0	48.4	77948		

5	77947	J. H. Shoemaker, Kitchener.	Kit-3 "	1 00	Lyman's, Ltd., Montreal.	B.P.	10 9	2 0	54 9	77947
9	77948	Butler Bros., Brantford.	3pkgs.	1 11	E. G. West & Co., Toronto.		9 6	3 0	48 4	77948

9	77949	W. H. Robertson, Brantford.	Brant 3 "	1 75	F. W. Horner Ltd., Montreal.		9 0	2 0	45 4	77949
10	77950	P. M. Dwyer, St. Catharines.	St. Cathar. 3 bots	1 11	H. K. Wampole & Co., Perth.		10 4	4 0	52 4	77950
10	77951	B. M. Black, St. Catharines.	St. Cathar. 3 "	1 00	E. G. West & Co., Toronto.		9 8	3 0	49 4	77951
12	77952	A. E. Drewery, 136 St. James, Hamilton.	St. James 3 "	1 05	Parke, Davis & Co., Walkerville.	B.P.	11 4	1 0	57 5	77952
13	77987	Parke & Parke, Market St., Hamilton.	Market & 3 "	1 11	Vendors.		12 2	3 0	61 5	77987

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR

June 12	65212	W. S. Howey, Exeter, Ont.	3 lots	1 06	Nat. Drug Co.		16 7	Trace.	84 2	65212
" 13	65223	J. E. Hovey, Clinton.	3 "	75	H. K. Wampole, Perth.		9 8	2 0	40 4	65223
" 13	65225	W. S. R. Holmes, Clinton.	3 "	1 05	H. K. Wampole, Perth.		10 5	1 0	52 9	65225
" 14	65233	A. L. Caldwell, Goderich.	3 "	75	Nat. Drug Co.		18 7	2 0	94 2	65233
" 15	65244	T. W. Goodyear, Woodstock, Ont.	3 "	1 11	Peninsular Chem. Co., Walkerville.		10 3	2 0	51 9	65244
" 15	65245	J. G. Karn, Woodstock, Ont.	12 ozs.	1 05	Parke Davis & Co., Walkerville.		9 3	2 0	46 9	65245
" 15	65247	Pepper's Drug Store, Woodstock, Ont.	3 bots.	1 25	H. K. Wampole Co., Perth.		9 5	3 0	47 9	65247
" 15	65249	Frank Hyde, Woodstock, Ont.	3 "	1 05	Parke Davis & Co., Walkerville.		9 5	2 0	47 9	65249
" 18	65254	Taylor Drug Co., London, Ont.	3 "	75	Nat. Drug Co.		20 1	Trace.	101 3	65254
" 19	65255	Cook's Red Drug Store, St. Thomas.	12 ozs.	1 05	H. K. Wampole Co., Perth.		9 7	None.	48 9	65255

DISTRICT OF NORTHERN ONTARIO—THOS. E. ARMSTRONG, INSPECTOR.

July 3	78601	Geo. S. Tatham, New Liskeard.	3 bots.	1 05	H. K. Wampole, Perth.		10 2	2 0	51 4	78601
" 3	78613	F. C. Shaw, Cobalt.	3 "	1 10	Lyman's, Ltd., Toronto.		9 1	7 0	45 9	78613
" 5	78616	Curtis Defoe Co., Hurlerbury.	3 "	1 50	John Wyeth & Bros., Philadelphia, Ltd.		9 6	2 0	48 4	78616
" 5	78617	P. H. Jory, Ltd., Hurlerbury.	3 "	1 11	Moyes Chem. Co., Toronto.		9 6	5 0	48 4	78617

Arsenic in exce

BULLETIN No. 393—PHOSPHATE OF SODA EFFERVESCENT—TABLE II.

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.			Remarks and opinion of the Chief Analyst.
				Quantity.	Cent.	Manufacturers.	Furnisher.		Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> 12 H <sub>2</sub> O).	

DISTRICT OF MANITOBA—J. B. COSGROVE, INSPECTOR.

1917.	June 26	Phosphate of Soda, Eff.	75369	J. H. Doods, 2691 Portage Ave., Winnipeg.	3	bols.	1.25	Martin Bole & Wynne, Winnipeg.	.....	9.2	1.0	46.4	75369	
"	" 26	"	75370	Roberts & Walker, 1824 Roberts Ave., Winnipeg.	3	"	1.05	D. W. Bradshaw, Winnipeg.	.....	9.7	1.0	48.9	75370	
"	" 27	"	75371	Portage Ave., Winnipeg. Provencher, Winnipeg.	3	"	1.05	C. E. Frosst, Montreal.	.....	10.0	2.0	50.4	75371	
"	" 28	"	75372	McCullough's Drug Store, 739 Ellis Ave., Winnipeg.	3	"	1.05	" " "	.....	10.0	3.0	50.4	75372	
"	" 28	"	75373	J. K. Brown, Elmwood.	3	"	1.20	Toronto Pharmaceutical Co., Toronto.	.....	11.5	3.0	57.9	75373	
July	4	"	75374	Robinson's Drug Store, Boisvain.	3	"	1.50	Parke Davis Co., Walkerville.	.....	9.2	3.0	46.4	75374	
"	" 4	"	75375	C. F. Hasselfield, Deloraine.	3	"	1.50	" " "	.....	10.7	1.0	53.9	75375	
"	" 10	"	79505	F. E. Campbell, Holland.	3	"	1.25	H. K. Wainpole, Perth.	.....	8.5	3.0	42.8	79505	
"	" 24	"	79518	International Drug Co., 503 Selkirk Ave., Winnipeg.	3	"	1.50	C. E. Frosst, Montreal.	.....	10.5	2.0	52.4	79518	
"	" 26	"	79519	Store's Drug Store, Portage Ave., Winnipeg.	3	"	1.50	Toronto Phar. Co., Toronto.	.....	12.5	3.0	63.0	79519	

DISTRICT OF SASKATCHEWAN L. H. HALL AND J. M. DANIS, INSPECTORS.

" 26	"	79519	Store's Drug Store, 907 3/4 Portage Ave., Winnipeg	1.50	Toronto Phar. Co., Toronto.			12-5	3-0	63-0	79519
June 14	Phosphate of Soda, Eff.	77037	T. C. Ostrander, Moose 3 lots, Jaw.	1.50	Peninsular Chem. Co., Walkerville.			10-5	1-0	52-9	77037
" 14	"	77038	E. B. Carruthers, Moose 3 "	1.50	C. E. Frost, Montreal			9-5	4-0	47-9	77038
" 14	"	77040	H. S. Hamilton, Moose 3 "	1.26	Nat. Drug & Chem. Co., Montreal.			9-8	1-0	49-4	77040
" 18	"	77044	Carter & Wright, Assini-3 bota.	1.50	Toronto, Pharmaceutical Co., Toronto.			12-2	1-0	61-5	77044
" 18	"	77046	Morrison & Nightingale, 3 "	1.50	Parke Davis Co., Win- nipeg.			9-5	2-0	47-9	77046
" 18	"	77047	Fowle's Drug Store, Shaw-3 "	1.50	C. E. Frost, Montreal			9-5	4-0	47-9	77047
" 23	"	77066	Canada Drug & Book Co., 3 Regina.	1.50	John Wyeth & Bro., Philadelphia.			7-5	4-0	37-8	77066
" 13	"	77071	Herbert Drug Co., Her-3 bert.	1.05	Martin Bole & Wynne, Winnipeg.			8-0	3-0	40-3	77071
Aug. 7	"	77087	Groh's Drug Store, Straas-3 bung.	1.05	H. K. Wampole & Co., Perth.			10-5	2-0	52-9	77087
" 8	"	77090	Regina Pharmacy Ltd., 3 Regina.	1.05	E. G. West & Co., Toronto.			8-0	4-0	40-3	77090
" 8	"	78508	L. A. Brown, North Battle-3 ford.	1.50	Nat. Drug Co., Mon- treal.			8-3	3-0	41-8	78508
" 8	"	78511	J. H. Abbott, North Bat-3 cleford.	1.05	H. K. Wampole & Co., Perth.			10-5	3-0	52-9	78511

DISTRICT OF ALBERTA—A. W. R. MARKLEY, INSPECTOR.

June 14	Phosphate of Soda, Eff.	52713	Wendell Maclean, Calgary 3 bots.	1.20	Parke Davis & Co., Walkerville.			12-0	3-0	60-5	52713
" 14	"	52714	McGill Drug Store, 9th 3 Ave. and 2nd St. E., Cal- gary.	1.20	"						
" 14	"	52715	John J. Weinfeld Drug Co. Ltd., Calgary.	2.25	C. E. Frost & Co., Montreal.			9-3	5-0	46-9	52715
" 21	"	52716	E. M. Carpenter, Edmon-1 ton.	50	Nat. Drug & Chem. Co., Montreal.			10-0	1-0	50-4	52716
" 21	"	52717	J. F. McCallum, Edmon-1 ton.	1.05	H. K. Wampole & Co., Perth.			8-5	3-0	42-8	52717
" 21	"	52718	H. L. Hunt, Edmonton 3 "	1.05	Parke Davis & Co., Walkerville.			11-0	2-0	55-4	52718
" 21	"	52719	The Owl Drug Co., " 3 "	1.50	John Wyeth & Bro., Philadelphia.			7-0	1-0	35-2	52719

BULLETIN No. 397—PHOSPHATE OF SODA, EFFERVESCENT—TABLE II.

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.			Remarks, and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Phosphoric Acid P <sub>2</sub> O <sub>5</sub> per cent.	Arsenic, parts per million.	Sodium Phosphate (Na <sub>2</sub> HPO <sub>4</sub> H <sub>2</sub> O).	
DISTRICT OF ALBERTA—Concluded.												
1917.												
June 28	Phosphate of Soda, Eff.	52720	Hume Ring Co., Medicine Hat.	3 bota.	1 20	C. E. Frost & Co., Montreal.		.....	9.5	4.0	47.9	52720
" 29	" "	52721	Frank Hedley Drug Co., Lethbridge.	3 "	1 80	Wm. R. Wainer & Co., Philadelphia.		.....	15.0	3.4	75.6	52721
July 10	" "	52722	Oliver Bros., Calgary.	3 "	1 05	H. K. Wainpole & Co., Montreal.		Contains 50 p.c. Sod. Pho.	9.5	2.0	47.9	52722
DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.												
July 13	Phosphate of Soda, Eff.	68425	E. W. Hazlewood, Trail.	3 bota.	1 20	Parko Davis & Co., Walkerville.		.....	10.36	Nil.	51.2	68425
" 17	" "	68444	W. H. Wainman, Rossland.	3 "	1 50	Nat. Drug & Chem. Co., Montreal.		.....	9.86	0.7	49.4	68444
" 24	" "	68455	Rutherford Drug Co., Nelson.	3 "	1 50	H. K. Wainpole & Co., Perth.		.....	9.88	0.5	49.9	68455
" 24	" "	68456	Poole Drug Co., Nelson.	3 "	1 50	C. E. Frost & Co., Montreal.		.....	10.08	0.7	50.8	68456
" 24	" "	68457	Poole Drug Co., Nelson.	3 "	1 05	Vendors.....		.....	11.80	0.5	59.5	68457
" 24	" "	68461	City Drug & Stationary Co., Nelson.	3 "	1 05	Toronto Pharmacal Co., Toronto.		.....	10.76	Nil.	54.2	68461



DISTRICT OF VANCOUVER—G. G. ARMYTAGE, INSPECTOR.

" 23	"	"	68457	Footle Drug Co., Nelson	3 "	1 05	Vendors	.....	.....	.....	11-80	0 5	68457
" 24	"	"	68461	City Drug & Stationary Co., Nelson	3 "	1 05	Toronto Pharmacal Co., Toronto	.....	.....	.....	10-75	Nil.	68461
June 18	Phosphate of Soda (Eff.)	75822	Standard Drug Store, Broadway and Alberta, Vancouver.	3 bots.	1 56	H. K. Wampole & Co., Perth.	.....	.....	.....	.....	9 32	Trace.	75822
" 19	"	75823	The Owl Drug Co., Main & Hastings, Vancouver.	3 "	1 20	Parke, Davis & Co., Walkerville.	.....	.....	.....	.....	8 56	Nil.	75723
" 20	"	75824	Knowlton's Ltd., 15 Hastings St. E., Vancouver.	3 "	1 50	" "	.....	.....	.....	.....	10 88	Trace.	75824
" 20	"	75825	Woodward's Dept. Stores, Ltd., Hastings and Abbott, Vancouver.	3 "	1 20	Unknown	.....	.....	.....	.....	9 20	"	75825
" 20	"	75826	Manhattan Pharmacy, Thurlow and Robson, Vancouver.	3 "	1 20	Nat. Drug & Chem. Co., Vancouver.	.....	.....	.....	.....	10 32	"	75826
" 20	"	75827	Lax, the Druggist, & Granville, Vancouver.	3 "	1 05	C. E. Frost & Co., Montreal.	.....	.....	.....	.....	9 76	0 5	75827
" 21	"	75828	David Spencer, Ltd., Hastings St. W., Vancouver.	3 "	1 20	Parke, Davis & Co., Walkerville.	.....	.....	.....	.....	8 48	Nil.	75828
" 25	"	75829	H. Ryall, 701 Columbia, New Westminster.	3 "	1 50	" "	.....	.....	.....	.....	8 76	Trace.	75829
" 26	"	75830	Capitola Pharmacy, & Thurlow, Vancouver.	3 "	2 25	H. K. Wampole & Co., Perth.	.....	.....	.....	.....	8 92	0 5	75830
" 27	"	75831	Pacific Drug Stores, Hastings and Seymour, Vancouver.	3 "	1 50	John Wyeth & Bro., Philadelphia.	.....	.....	.....	.....	8 32	Nil.	75831

DISTRICT OF VICTORIA—G. G. ARMYTAGE, ACTING INSPECTOR.

July 13	Phosphate of Soda (Eff.)	75902	J. B. Hodgins, Nanaimo	3 bots.	1 00	H. K. Wampole & Co., Perth.	.....	.....	.....	.....	9 32	0 5	75902
" 13	"	75903	A. C. Van Houton, Nanaimo.	3 "	1 00	" "	.....	.....	.....	.....	8 40	Trace.	75903
" 25	"	75904	David Spencer, Ltd., Victoria.	3 "	1 05	D. Howard's Family Remedy Co., Walkerville.	.....	.....	.....	.....	9 42	Nil.	75904
" 25	"	75905	D. E. Campbell, Douglas, Victoria.	3 "	1 50	Parke, Davis & Co., Walkerville.	.....	.....	.....	.....	8 75	"	75905
" 26	"	75906	F. J. Williams, Government, Victoria.	3 "	1 50	" "	.....	.....	.....	.....	8 80	"	75906
" 26	"	75907	W. Jackson & Douglas St., Victoria.	3 "	1 05	H. K. Wampole & Co., Perth.	.....	.....	.....	.....	8 48	0 7	75907
" 26	"	75908	Dean & Hancock, St., Victoria.	3 "	1 00	Parke, Davis & Co., Walkerville.	.....	.....	.....	.....	9 08	Nil.	75908

*CORRECTION.*

Bulletin No. 382 page 6, sample Liniment of Camphor No. 76526, under Remarks and Opinion of the Chief Analyst should appear the following: "Genuine as to camphor content, but made with olive oil which contains cotton seed oil."

