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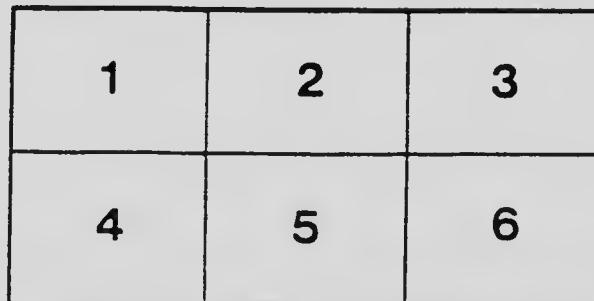
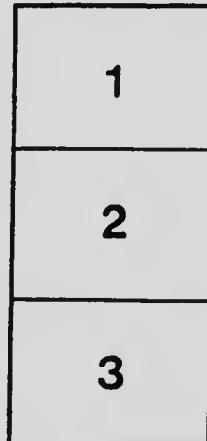
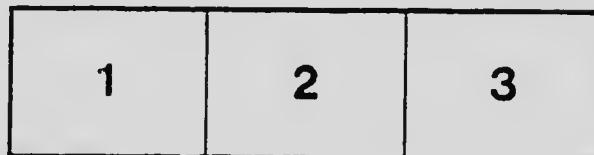
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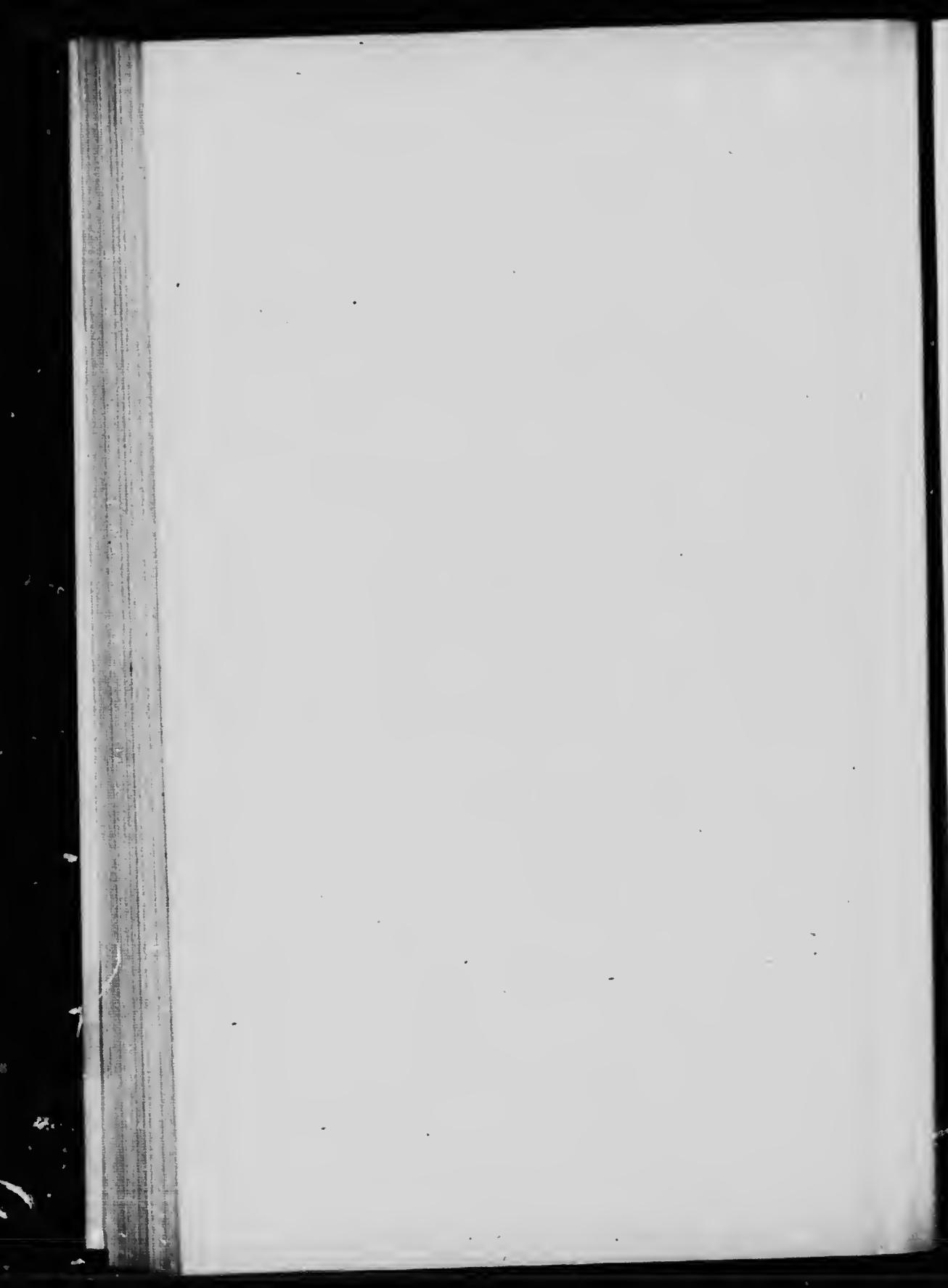
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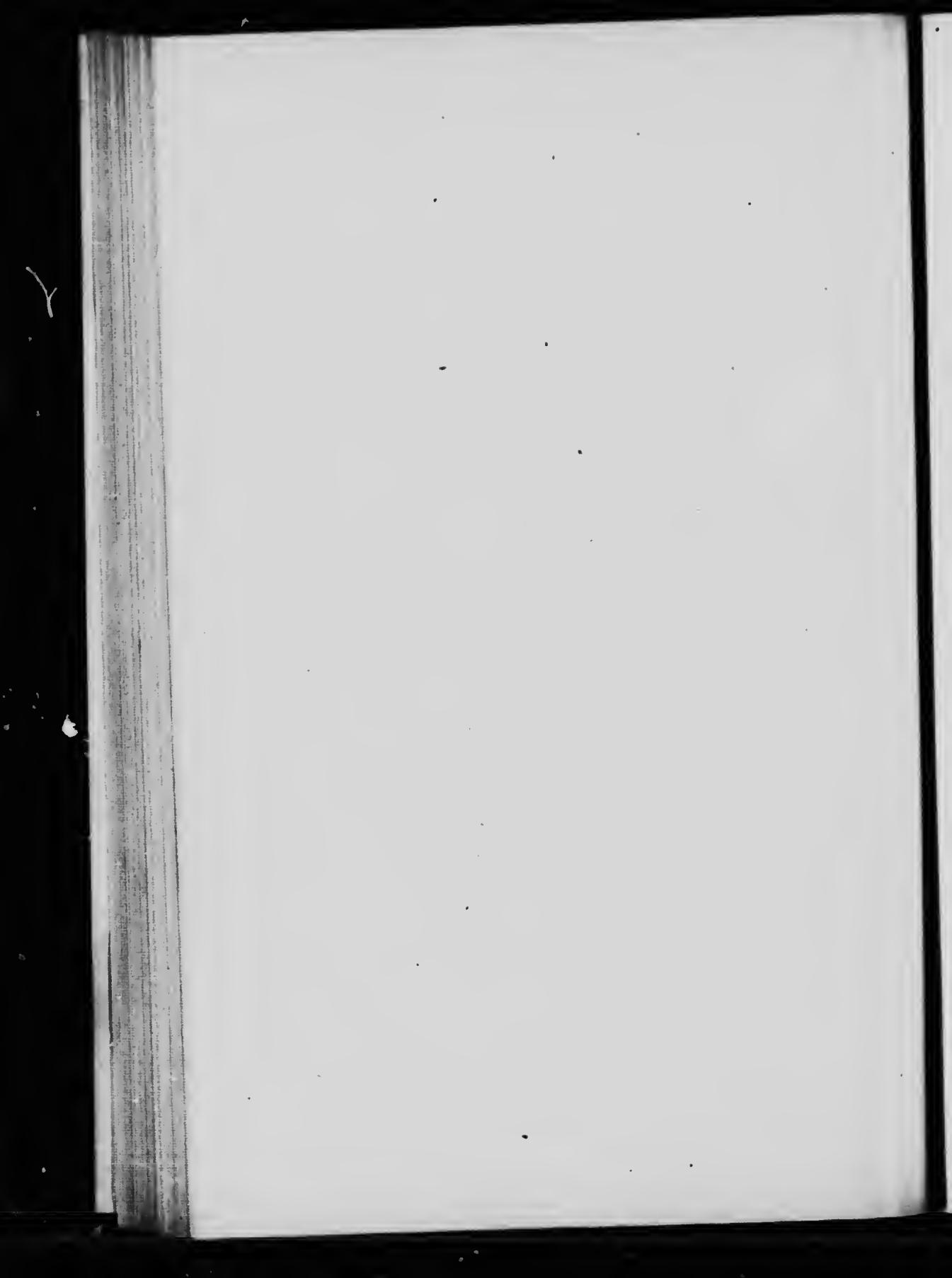
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 333

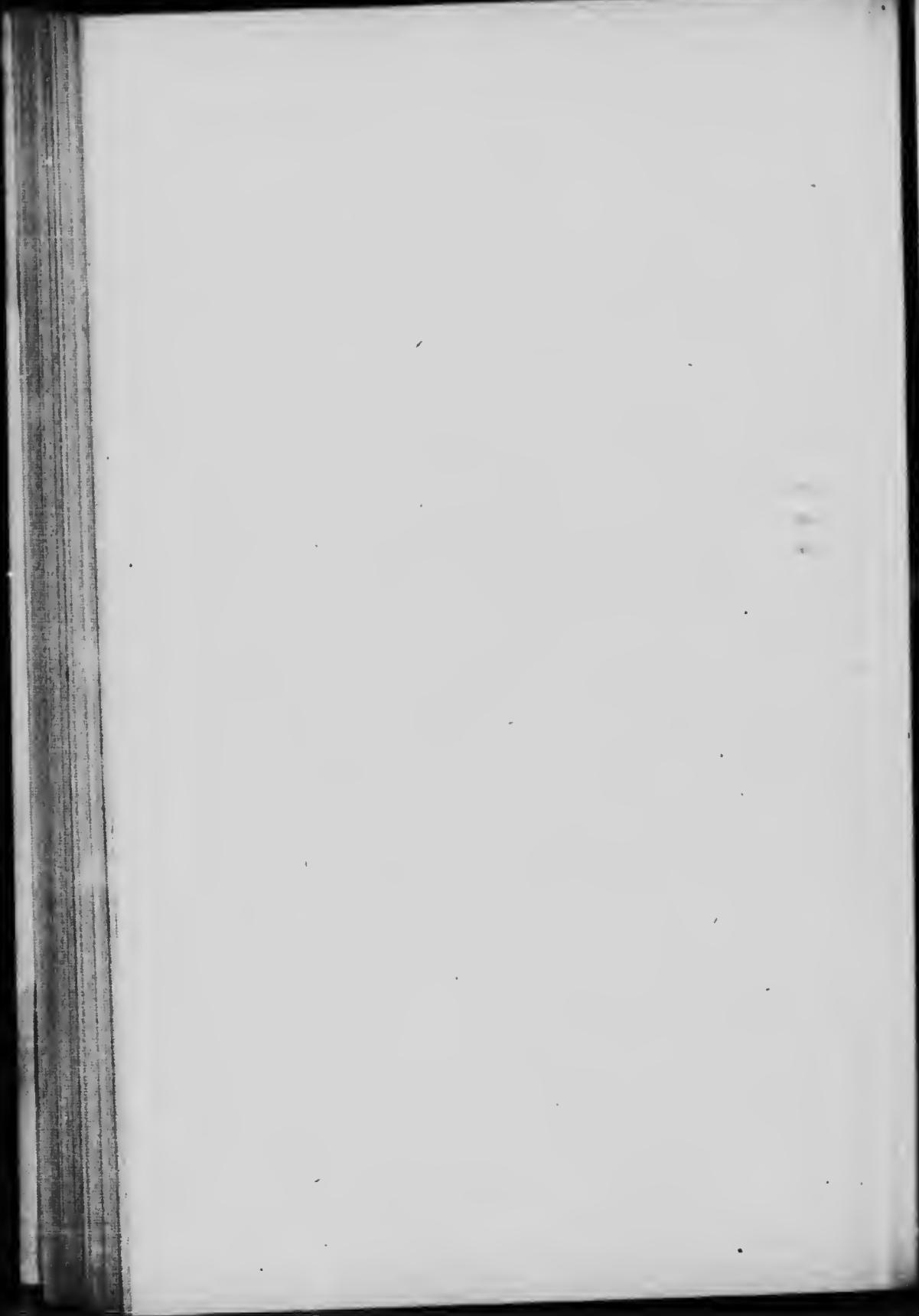
FORMALIN



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 a 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.



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 333

FORMALIN

OTTAWA; January 21, 1916.

J. U. VINCENT, Esq.

Deputy Minister of Inland Revenue.

Sir,—Solution of Formaldehyde (Liquor Formaldehydi) of the British Pharmacopoeia is defined as an aqueous solution of Formaldehyde, containing in 100 millilitres (cubic centimetres) not less than 36 and not more than 38 grammes of formaldehyde. This is a quantitative statement of weight in volume.

Squires' Companion to the Pharmacopoeia adds: "The commercial article *Formol* or *Formalin* is stated to be a 40 per cent solution. Since the specific gravity of this solution is about 1.080, it follows that a weight in volume solution of 36 per cent formaldehyde would represent only 33.3 per cent by weight in 100 parts by weight.

Manufacturers claim that they furnish a 40 per cent solution weight in volume; that is, a solution of 40 parts formaldehyde by weight in 40 parts of Formalin by volume. This is equivalent to a weight in weight percentage of about 37.

Formalin is largely used as a disinfectant, for all the purposes of this class of articles; but is perhaps chiefly in demand for treatment of seed grain.

The present report deals with sixty-eight (68) samples, purchased in October and November last, in consequence of complaints received by this department (L. 134431). Examination shows all of the samples to be genuine if regarded as Liquor Formaldehydi of the Pharmacopoeia.

If regarded as 40 per cent solutions (weight in volume) of formaldehyde—said to be the commercial Formalin—four (4) samples are found to be slightly below requirements. Since, however, *Formalin* has no legal status under the Adulteration Act, I am unable to declare adulteration in these cases. The report, as a whole, shows that commercial Formalin, as sold in Canada, is of very good quality.

I beg to recommend publication of this report as Bulletin No. 323.

I have the honour to be, Sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

BULLETIN No. 333—FORMALIN.

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 (It is not an expression of Opinion.)	Results of Analysis.		No. of Sample.
					Quantity.	Cents.		Weight, by Permeable Vessels.	Volume in Permeable Vessels.	
1915.										
Nov. 29	Formalin.	67271	J. A. Harte, 148 Notre Dame St., West, Montreal	12 ozs.	75	Lyman-Knox Co.	.....	36.6	40.3	67271
"	"	67272	Ledoux Drug Store, Chas. Hollis Square, Montreal	12 "	63	Unknown.....	.....	39.2	43.1	67272
"	"	67273	A. LeBrun, 465 St. James Square, Montreal	9 "	75	Lymans Ltd.	.....	38.6	42.4	67273
"	"	67274	National Drug & Chemical Co., Montreal	12 "	30	Vendor.....	.....	37.6	41.3	67274
"	"	67275	Chas. E. Frost & Co., Montreal	3 lbs. 100 "	.....	.....	.....	37.2	40.3	67275
"	"	67276	Chapman-Dart Co., Montreal	12 ozs.	50	Unknown.....	.....	38.4	42.2	67276
"	"	67277	Park-Davis & Co., Montreal	12 "	40	Vendors.....	.....	40.4	44.4	67277
"	"	67278	Lyman-Knox & Co., Montreal	12 "	27	"	.....	39.2	43.1	67278
"	"	67279	J. A. D. Gabout, 54 Craigie St., West, Montreal	12 "	50	Lymans Ltd.	.....	36.0	39.6	67279
"	"	67280	Pharmacie Robert, Craigie & St. Lawrence St., Montreal	12 "	75	National Drug & Chemical Co.	.....	37.2	40.9	67280

DISTRICT OF MONTREAL—D. J. KEARNEY, INSPECTOR.

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 (It is not an expression of Opinion.)	Results of Analysis.		No. of Sample.
					Quantity.	Cents.		Weight, by Permeable Vessels.	Volume in Permeable Vessels.	
1915.										
Nov. 29	Formalin.	67271	J. A. Harte, 148 Notre Dame St., West, Montreal	12 ozs.	75	Lyman-Knox Co.	.....	36.6	40.3	67271
"	"	67272	Ledoux Drug Store, Chas. Hollis Square, Montreal	12 "	63	Unknown.....	.....	39.2	43.1	67272
"	"	67273	A. LeBrun, 465 St. James Square, Montreal	9 "	75	Lymans Ltd.	.....	38.6	42.4	67273
"	"	67274	National Drug & Chemical Co., Montreal	12 "	30	Vendor.....	.....	37.6	41.3	67274
"	"	67275	Chas. E. Frost & Co., Montreal	3 lbs. 100 "	.....	.....	.....	37.2	40.3	67275
"	"	67276	Chapman-Dart Co., Montreal	12 ozs.	50	Unknown.....	.....	38.4	42.2	67276
"	"	67277	Park-Davis & Co., Montreal	12 "	40	Vendors.....	.....	40.4	44.4	67277
"	"	67278	Lyman-Knox & Co., Montreal	12 "	27	"	.....	39.2	43.1	67278
"	"	67279	J. A. D. Gabout, 54 Craigie St., West, Montreal	12 "	50	Lymans Ltd.	.....	36.0	39.6	67279
"	"	67280	Pharmacie Robert, Craigie & St. Lawrence St., Montreal	12 "	75	National Drug & Chemical Co.	.....	37.2	40.9	67280

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

Oct.	12	F. Formalin	69355	T. J. Watson, Stayner	1 lb.	30	.....	National Drug & Chemical Co., Canada, Drug Trading Co., Toronto, " ..	37.6	41.3	69355 Meets Legal Requirements.
"	13	" ..	69356	Jury & Gregway, Collingwood	1 "	50	.....	National Drug & Chemical Co., Canada, Drug Trading Co., Toronto, " ..	33.4	42.2	69356 "
"	13	" ..	59357	Dr. E. L. Connolly, Collingwood	Col. 1 "	50	.....	National Drug & Chemical Co., Canada, Drug Trading Co., Toronto, " ..	36.4	40.0	69357 "
"	14	" ..	69358	H. J. Robertson, Barrie	Barrie	1 "	50	National Drug & Chemical Co., Canada, Drug Trading Co., Toronto, " ..	36.8	40.5	69358 "
"	14	" ..	69359	Geo. Monkman, Barrie	Barrie	1 "	40	Standard Chemical Co., Ltd., Toronto, " ..	37.2	40.9	69359 "
"	15	" ..	69360	A. E. Patterson, Allandale	Allandale	1 "	40	Standard Chemical Co., Ltd., Toronto, " ..	34.2	31.7	69360 Slightly below accepted formalin strength. Meets Legal Requirements.
"	19	" ..	69361	W. J. McGuire, Allandale	Allandale	1 "	50	Unknown	37.8	41.6	69361 Meets Legal Requirements.
"	20	" ..	69362	Dr. P. A. McDonald, Penetanguishene	Penetanguishene	1 "	35	E. G. West & Co., Toronto, National Drug & Chemical Co., Ltd., Hamilton, " ..	37.6	41.3	69362 "
"	21	" ..	69363	H. S. McCartney, Midland	Midland	1 "	35	National Drug & Chemical Co., Ltd., Hamilton, " ..	37.6	41.3	69363 "
"	21	" ..	69364	J. S. Fraleigh, Midland	Midland	1 "	35	The Standard Chemical Co., Ltd., Toronto, " ..	38.0	41.8	69364 "

DISTRICT OF HAMILTON—J. COSTIGAN, ACTING INSPECTOR.

Oct.	2	F. Formalin	54436	V. F. Christilav, St. James	1 lb.	75	H. K. Wampole	" Formed," 35.8	39.4	54437 Meets legal requirements.	
"	2	" ..	59437	Porter's Drug Store, 244 St. James St. N., Hamilton, Ont.	1 "	35	.....	.....	.....	54436 "	
"	2	" ..	58438	James M. Walker, St. Paul	St. St. Catharines, Ont.	1 "	50	Standard Chem. Co., Ltd., N. D. and Chem. Co., Ltd., H. K. Wampole Co., Ltd.	40.4	44.4	58438 "
"	4	" ..	58439	F. W. Jeff. Kirby, St. St. Catharines	St. St. Catharines, Ont.	1 "	50	.....	36.6	40.3	58439 "
"	4	" ..	58440	Abbe & McLean, Ltd.	Queen St., St. Catharines, Ont.	1 "	50	.....	38.0	41.8	58440 "
"	4	" ..	58441	Cecil A. Cameron, Colborne	Colborne St., Brantford, Ont.	1 "	50	Nat. Drug and Chem. Co., Ltd., Hamilton, " ..	38.6	42.4	58441 "
"	4	" ..	58442	Gordon Brandon, Ltd.	St. Brantford, Ont.	1 "	50	.....	39.0	42.9	58442 "

BULLETIN No. 333—FORMALIN.

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.	Manufacturer.	Furnisher.	
DISTRICT OF HAMILTON—J. B. COSTIGAN, ACTING INSPECTOR—Concluded.										
1915.										
Oct.	4	Formalin.	58443 A. W. Smiley, Market St., 1 lb.	40	Nat. Drug and Chem. Co., Ltd.			38.2	42.0	58443 Meets legal requirements.
"	4	"	58444 S. Tapscott & Co., 24 Market St., Brantford, Ont.	60	"			36.6	40.3	58444 "
"	4	"	58445 T. George Bone, Coborne 1 St., Brantford, Ont.	50	"			38.6	42.4	58445 "

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

Oct.	5	Formalin.	61416 McMillan Pharmacy, Selkirk Ave. and McKenzie, Winnipeg.	1 lb.	60	Wynn Co., Winnipeg.	Martin Bole & Wynn Co., Winnipeg.	35.10	38.6	61416 Slightly below accepted formalin strength.
"	5	"	61417 H. D. Campbell, 988 Main St., Winnipeg.	60	"	"	"	35.87	40.4	61417 Meets legal requirements.
"	6	"	61418 J. K. Brown, 308 Nairn Ave., Elmwood, Winnipeg.	35	"	"	Nat. Drug Co., Winnipeg.	36.14	39.7	61418 "
"	6	"	61419 Kilmanon Pharmacy, 2061 Hespeler Ave., Winnipeg.	50	"	"	Martin Bole & Wynn Co., Winnipeg.	36.88	40.5	61419 "
"	6	"	61420 Louis A. Rice, 16933 Portage Ave., Winnipeg.	12 oz.	40	"	"	36.24	39.8	61420 "
"	6	"	61421 Ralph Magee, 1849 Portage Ave., Winnipeg.	1 lb.	40	"	Unknown	35.15	38.6	61421 Slightly below accepted formalin strength.

age Ave., Winnipeg.	40	Unknown	35.15	38.6	61421 Slightly below ac- cording to formalin strength.
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"	"	61422	A. T. Preckling, 116 Osborne 1 " "	60	Nat. Drug Co., Winnipeg.	35-75	39-3
			St., Fort Rouge, Winni-			Martin Role & Wynn Co.,	36-93	40-6
			peg.			Winnipeg.		
		61423	H. L. Brown, 175 Osborne 1 " "	75	... .	Nat. Drug Co.,	36-14	39-7
			St., Fort Rouge, Winni-			Winnipeg.		
			peg.			B le & Wynn		
		61424	W. B. Davis, 217 Nassau 1 " "	50	... .	Co., Westminster 1 "	36-13	39-7
			St., Fort Rouge, Winni-			Ave., Winnipeg.		
		61425	Peyntz Co., Westminster 1 "	45	... .		

DIRECTOR OF SASKATCHEWAN-HALL INSPECTOR

Oct.	8	Formalin.	66437	Moosejaw Drug and Stationery, Moosejaw	Stal. 1 lb..	20	Standard Chem. Co., Winnipeg.	36.91	40.6	66437	Meets legal requirements.
"	8	"	66438	F. Mariat, Moosejaw.	1 "	25	"	39.10	43.0	66438	"
"	8	"	66439	H. A. Davidson, Moose.	1 "	25	"	36.46	40.1	66439	"
"	8	"	66440	E. L. Colling, Moosejaw.	1 "	25	"	36.96	40.6	66440	"

DISTRICT OF ALBERTA—A W. B. MARKLEY INSPECTOR

No.	16	Formalin	52271	E. M. Cawker, Medicin- Hat.	Medicin- bot.	50	Standard Chem. Iron and Lumber Co., Toronto.	... . . . .	36·8	40·4	52271	Meets legal require- ments.
"	16	"	52272	G. P. Souch, Medicine Hat	3 "	50	Standard Chem. Co., Winnipeg.	... . . . .	36·5	40·1	52272	"
"	17	"	52273	Alberta Drug and Station- ery Co., Lethbridge.	3 "	40	J. D. Higginboth- am & Co., Leth- bridge.	... . . . .	37·0	40·7	52273	"
"	17	"	52274	Kenny & All in Co., Ltd.	3 "	60	Nat. Drug and Chem. Co., Cal- gary.	... . . . .	36·8	40·4	52274	"
"	18	"	52275	J. D. Higginbotham & Co.,	3 "	30	Standard Chem. Iron and Lumber Co., Winnipeg.	... . . . .	37·3	41·0	52275	"
"	18	"	52276	T. H. McCready, Leth- bridge.	3 "	36	"	... . . . .	36·7	40·3	52276	"
"	19	"	52277	Jas. Findlay Drug Ltd., Calgary.	3 "	45	Nat. Drug and Chem. Co., Cal- gary.	... . . . .	37·7	41·4	52277	"

BULLETIN No. 333—FORMALIN.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cust.	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.
							Weight.	Formaldehyde by Weight.		
1915.	Formalin.	52278	MacFarlane Drug Store, 3 bots. Calgary.	45	Standard Chem. Iron and Lumber Co., Winnipeg.	.....	.....	36.6	40.2	52278 Meets legal requirements.
Nov. 19	"	52279	McDermid Drug Co., Ltd., 3 Calgary.	35	Nat. Drug and Chem. Co., Winnipeg.	.....	.....	37.3	41.0	52279 "
"	"	52280	Oliver Bros., Ltd., Calgary 3	35	Nat. Drug and Chem. Co., Winnipeg.	.....	.....	37.0	40.7	52280 "

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

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.										
Oct. 18	Formalin.	61887	Fort George Drug Co., 1 lb.	75	H. K. Wampole Co., Perth, Ont.	.....	.....	37.6	41.3	61887 Meets legal requirements.
"	"	61894	Princ. George. Rankine Merritt, 1 B.C.	65	Nat. Drug and Chem. Co., Vancouver.	.....	.....	35.9	39.4	61894 "
Nov. 16	"	"	"	65	Nat. Drug and Chem. Co., Vancouver.	.....	.....	34.9	38.3	68104 Slightly below accepted for formalin strength.
Dec. 6	"	68104	Woodland & Quinn, Grand Forks	65	Nat. Drug and Chem. Co., Vancouver.	.....	.....	35.9	39.4	68103 Meets legal requirements.
"	"	68105	The Mann Drug Co., Grand Forks	65	Nat. Drug and Chem. Co., Vancouver.	.....	.....	35.9	39.4	

BULLETIN No. 333 FORMALIN.

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 Opinions of the Chief Analyst.
							Quantity.	Units.	No. of Sample.	
1915.										
Oct. 30	Formalin..	55386	Marrett & Reid, 157 Hastings St., West, Vanc., BC.	1 lb.	75	J. A. Teportoen, Ltd., Vanc., B.C.	36.2	p.c.	39.8	55386 Meets legal requirements.
" 30	"	55387	Woodward Dept. Stores, Ltd., Vanc., B.C.	1 "	50 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.2	p.c.	39.8	55387 "
Nov. 1	"	55388	Owl Drug Co., Ltd., Granville and Dunsماur Sts., Vanc., B.C.	1 "	50	.....	36.5	40.1	55388 "	
" 1	"	55389	Burns Drug Co., Ltd. 732 Granville St., Vanc., B.C.	1 "	75	J. A. Teportoen, Ltd., Vanc., B.C.	36.0	p.c.	39.6	55389 "
" 1	"	55390	W. M. Harrison & Co., Ltd. Granville and Robson Sts., Vanc., B.C.	1 "	75 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.8	40.4	55390 "	
" 1	"	55391	Campbell Ltd., Hastings and Granville Sts., Vanc., B.C.	1 "	75	.....	38.1	41.9	55391 "	
" 2	"	55392	Woods Pharmacy, 601 Hastings St., Vanc., B.C.	1 "	50	.....	37.5	41.2	55392 "	
" 2	"	55393	D. S. Curtis & Co., 659 Columbia St., New Westminster, B.C.	1 "	75 Unknown.....	.....	37.0	40.7	55393 "	
" 2	"	55394	F. T. Hull, 928 Columbia St., New Westminster, B.C.	1 "	50	Nat. Drug & Chem. Co.	36.5	40.1	55394 "	
" 2	"	55395	C. S. Davis, 42 Sixth St., New Westminster.	1 "	50 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.2	39.8	55395 "	

DISTRICT OF VANCOUVER-E. J. MORGAN, INSPECTOR.

Cost.	Manufacturer.	Furnisher.	Inspector's Report (Is not an Expression of opinion.)	Weight, g.	Volume, ml.	Formaldehyde by Weight.	No. of Sample.	Results of Analysis	Remarks and Opinions of the Chief Analyst.	
1915.										
Oct. 30	Formalin..	55386	Marrett & Reid, 157 Hastings St., West, Vanc., BC.	1 lb.	75	J. A. Teportoen, Ltd., Vanc., B.C.	36.2	p.c.	39.8	55386 Meets legal requirements.
" 30	"	55387	Woodward Dept. Stores, Ltd., Vanc., B.C.	1 "	50 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.2	p.c.	39.8	55387 "
Nov. 1	"	55388	Owl Drug Co., Ltd., Granville and Dunsماur Sts., Vanc., B.C.	1 "	50	.....	36.5	40.1	55388 "	
" 1	"	55389	Burns Drug Co., Ltd. 732 Granville St., Vanc., B.C.	1 "	75	J. A. Teportoen, Ltd., Vanc., B.C.	36.0	p.c.	39.6	55389 "
" 1	"	55390	W. M. Harrison & Co., Ltd. Granville and Robson Sts., Vanc., B.C.	1 "	75 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.8	40.4	55390 "	
" 1	"	55391	Campbell Ltd., Hastings and Granville Sts., Vanc., B.C.	1 "	75	.....	38.1	41.9	55391 "	
" 2	"	55392	Woods Pharmacy, 601 Hastings St., Vanc., B.C.	1 "	50	.....	37.5	41.2	55392 "	
" 2	"	55393	D. S. Curtis & Co., 659 Columbia St., New Westminster, B.C.	1 "	75 Unknown.....	.....	37.0	40.7	55393 "	
" 2	"	55394	F. T. Hull, 928 Columbia St., New Westminster, B.C.	1 "	50	Nat. Drug & Chem. Co.	36.5	40.1	55394 "	
" 2	"	55395	C. S. Davis, 42 Sixth St., New Westminster.	1 "	50 Standard Chem. Iron and Lumber Co., Montreal.	.....	36.2	39.8	55395 "	

