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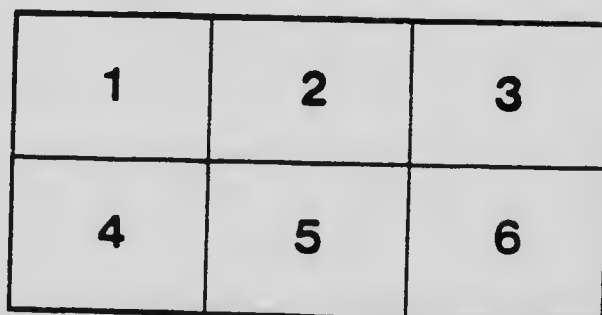
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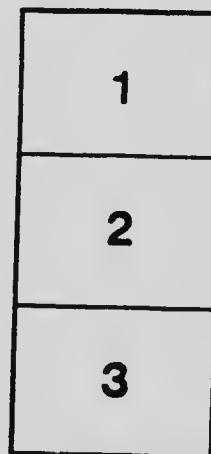
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 367

EDIBLE GELATIN

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.

A. MCGILL,
Chief Analyst.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 367

EDIBLE GELATIN

OTTAWA, 22nd March, 1917.

J. U. VINCENT, Esq. K.C.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to report upon 187 samples of Gelatin, purchased by our inspectors in April, May and June of last year.

The report is arranged in three parts. Table I furnishes the ordinary analytical results upon 57 samples. Table II gives results in greater detail upon 59 samples, specially examined by Mr. M. Brot of this staff now at the front, somewhere in France. Table III gives results for sulphurous acid only, in 28 samples of so called Jelly *à la* *Normande*. These articles are not properly described as Gelatin, although they contain gelatin as an ingredient.

Both edible gelatin and glue are obtained by treating the collagens of bones, tendons, cartilage, etc. with boiling water. It will be readily understood that, fundamentally, they are the same thing. The essential character of edible gelatin, as distinguished from glue, is its purity. Glue may be a perfectly pure article without ceasing to be glue; but edible gelatin must be a pure article; and, in order to ensure a satisfactory degree of purity, it should be required to meet certain specified standards.

The treatment which the original material receives in the manufacture of gelatin is such as to fairly well assure the destruction of organic impurity. But when we consider the nature of the material available for the manufacture of glue, dead animals of all kinds, and in various stages of decomposition, we must recognize the desirability of giving the consumer of gelatin a guarantee that only selected and unobjectionable materials have been used in its production. This can only be done by efficient inspection at the factory; and for this reason, the inspection of all gelatin factories should be undertaken by Government. So far as Canada is concerned, this is the case; and the Department of Agriculture, in its administration of the Meat Inspection Act, guarantees the quality of the material used in manufacture of edible gelatin, so far as meat packers, doing an export business is concerned. I am not however aware that the manufacture of gelatin is anywhere in Canada carried on beyond the actual requirements of the manufacturer in his own business. Practically all of the gelatin used in Jelly Powder manufacture, in ice-cream, etc. is of foreign manufacture.

The Department of Customs has kindly furnished me with the following statistics concerning the importation of gelatin and isinglass (fish gelatin) for the fiscal year ending 31st March, 1916.

	Lbs.	Value.
United Kingdom.	179,173	\$43,327
China.	41	8
France.	13,112	2,507
Holland.	2,231	460
Japan.	10,280	3,570
Switzerland.	13,863	2,684
United States.	246,116	91,035
Total.	464,815	\$145,591

Gelatin is thus defined by the British Pharmacopœia, revision of 1914; "Is the air-dried product obtained by the action of boiling water on animal tissues, such as skin, tendons, ligaments and bones.

Characters and Tests.—In almost colourless, translucent sheets or shreds. Insoluble in alcohol (90 per cent) and in ether: soluble in acetic acid. A solution in hot water (1 in 50) is inodorous, and solidifies to a jelly on cooling. An aqueous solution yields a precipitate with solution of tannic acid, but not with solutions of other acids, or with dilute solution of alum, solution of lead acetate, or test solution of ferric chloride. Ash not more than 2 per cent."

Gelatin finds extensive uses in the arts, and most of its applications require the article to possess a high degree of purity. The definition above quoted has primary regard to its employment in medicine, where it is used in the manufacture of capsules and otherwise. It is, however, with its use as a food material that we are immediately concerned.

As a food, gelatin enters into the manufacture of so-called jelly powders, in jellied meats, as a stiffener in ice cream, etc.

Investigatory work, having for its object the fixing of definite distinction between edible gelatin and glue, as used in the arts, has for a considerable time been carried on by the Department of Agriculture at Washington. I am not informed of the completion of the work referred to, but by correspondence I learn that the most important characters considered to establish the distinction are odour, turbidity, jelly strength, fat and ash.

Colour is of necessity, a matter of importance, although the bright colours given by coal-tar dyes to most jelly powders, reduce its importance so far as these are concerned. Where select materials are employed in the manufacture, it should not be necessary to use bleaching agents to give edible gelatin desirable lightness of colour. Our standards require that sulphur dioxide (sulphurous acid) shall not be present in solid foods above 1 part in 2,000 parts (50 parts per 100,000). This limit is exceeded in 11 samples of Table I and in 10 samples of Table II.

Traces only of sulphurous acid are found in the jelly powders enumerated in Table III.

Ash.—The British Pharmacopœia fixes 2 per cent, as the ash limit in gelatin. This limit is exceeded in 27 samples of Table I, and in 10 samples of Table II.

Odour.—This is observed by soaking in cold water for 4 hours and then making into a jelly by heating with water. Good samples yield no offensive odour. Thirteen samples of Table I and 14 samples of Table II gave more or less unpleasant odour when thus treated. Of this number 5 samples were decidedly objectionable, and should undoubtedly be classed as glue.

Turbidity of a 25 per cent, solution was observed in the samples arranged in Table II. Of the total number (52 samples) 15 samples gave more or less distinct turbidity; in 9 of them the turbidity was very marked.

Viscosity.—This may be determined by the method of flow, which however we have found to be very unsatisfactory and subject to large experimental error. Determinations as recorded in Table II were made on 25 per cent, solutions at 80° C. In a general way the results corroborated those ascertained by the use of the Doolittle Viscosimeter, but these last are much more trustworthy and duplicates in close agreement are easily obtained.

The instrument is standardized in terms of sugar solutions made as per instructions accompanying it.

We have not yet been able to formulate specific standards for gelatin, but it is hoped that this may be done in the near future, and the information furnished herewith will be helpful to this end. I would respectfully advise publication of this report as Bulletin No. 387.

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

A. MCGILL,
Chief Analyst.

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA -

1916.								
May 30	Gelatine..	54261	Moir's, Ltd., Halifax.	1 lb.	46	Unknown . . .	J. M. Douglas & Co., Montreal	Sheet . . .
" 30	" . . .	54262	Estate of Wm. Patrick, Halifax.	1 " . .	50	M. Michael & Son, New York.	Mfr . . .	

DISTRICT OF PRINCE EDWARD ISLAND-

June 13	Gelatine..	69451	F. W. Strong & Co., Summerside, P. E. I.	3 pkgs	45	Charles B. Knox & Co., Montreal.		Knox . . .
" 14	" . . .	69452	R. T. Holman, Ltd., Summerside, P. E. I.	3 "	36	J. & G. Cox, Edinburgh, Scotland.		Cox . . .
" 16	" . . .	69454	The Tignish Trading Co., Tignish, P. E. I.	3 "	45	Chas. B. Knox & Co., Montreal.		Knox . . .
" 20	" . . .	69455	H. Peters, Charlottetown, P. E. I.	3 "	45	" . . .		" . . .
" 20	" . . .	69456	H. J. Holman & Co., Charlottetown, P. E. I.	3 "	36	J. & G. Cox, Edinburgh, Scotland.		Cox . . .
" 21	" . . .	69457	Stewart & Son, Charlottetown, P. E. I.	1 lb..	75	W. P. Downey, Montreal.		
" 22	" . . .	69458	DeBlois Bros., Charlottetown, P. E. I.	3 pkgs	35	Chas. B. Knox, Montreal.		Knox . . .
" 22	" . . .	69459	Auld Bros., Charlottetown, P. E. I.	3 "	30	McLaren's, Ltd., Hamilton.		McLaren's . . .
" 23	" . . .	69460	Jenkins & Son, Charlottetown, P. E. I.	3 "	36	J. & G. Cox, Edinburgh, Scotland.		Cox . . .
" 16	" . . .	69453	J. H. Myrick & Co., Tignish, P. E. I.	3 "	45	Chas. B. Knox, Montreal.		Knox . . .

DISTRICT OF NEW BRUNSWICK-

May 3	Gelatine..	69401	J. I. Davis & Son, St. John, N.B.	3 pkgs	39	J. & G. Cox, Edinburgh, Scotland.		Cox . . .
" 5	" . . .	69402	M. E. Grass, St. John, N.B.	3 "	45	Chas. B. Knox Co., Montreal.		Knox . . .
" 5	" . . .	69403	H. L. Alexander, St. John, N.B.	3 "	36	J. & G. Cox, Edinburgh, Scotland.		Cox . . .
" 19	" . . .	69404	A. E. Trentowsky, St. John, N.B.	3 "	45	Chas. B. Knox Co., Montreal.		Knox . . .
" 19	" . . .	69405	M. E. Grass, St. John, N.B.	1 lb..	70	Coignet, Pere & Fils & Cie, Paris, France.		

GELATIN.—TABLE I.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.											No. of Sample	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Sulphates, Parts per 100,000	Gelatinating power of 5% Solution.	Odour of 5% Solution.		Reaction with.		Physical Characteristics.			Analyst		
				After 4 hours.	After 2 days.	Litmus.	5% Alum Solution	Colour.	Transparency.	Aggregation.			

SCOTIA—

R. J. WAUGH, INSPECTOR.

Sheet	3 58	5	+	Gluey.	Very gluey.	Neutral.	-	Dark brown.	.....	Broken sheets.	A. J. L.	54261
.....	2 94	12	+	Normal.	Normal.	Basic.	-	Yellowish brown.	Clear.	Shredded.	"	54262

ISLAND—

JOHN C. FERGUSON, ACTING INSPECTOR.

Knox.....	1 22	.....	+	Normal.	Normal.	Acid.	-	.....	.....	Powder.	A. J. L.	69401
Cox.....	1 58	.....	+	Gluey.	Badly decomposed.	Neutral.	-	.....	.....	Shredded.	"	69402
Knox.....	1 60	11	+	Normal.	Normal.	Acid.	-	.....	.....	Powder.	"	69454
".....	1 56	.....	+	"	"	"	-	.....	.....	"	"	69455
Cox.....	2 02	.....	+	"	"	"	-	.....	.....	"	"	69456
.....	2 06	55	-	Slightly gluey.	Slightly gluey.	"	-	Yellowish tinting	Clear.	Leaf.	"	69457
Knox.....	1 42	..	+	Normal.	Normal.	-	-	.....	.....	Powder.	"	69458
McLaren's..	1 60	47	+	Slightly gluey.	Slightly gluey.	"	-	.....	.....	"	"	69459
Cox.....	2 34	.....	+	"	"	"	-	.....	.....	"	"	69460
Knox.....	0 96	5	+	Normal.	Normal.	"	-	.....	.....	"	"	69463

NSWICK—

JOHN C. FERGUSON, INSPECTOR.

Cox.....	2 29	8	+	Normal.	Normal.	Acid.	-	.....	.....	Powder.	A. J. L.	69401
Knox.....	1 38	8	+	"	"	"	-	.....	.....	"	"	69402
Cox.....	2 10	11	+	"	"	"	-	.....	.....	"	"	69403
Knox.....	1 14	5	+	"	"	"	-	.....	.....	"	"	69404
.....	0 52	27	+	"	"	"	-	Colourless.	Clear.	Leaf.	"	69405

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK-

1916.								
May 25	Gelatine..	69406	C. H. Bunt, Fredericton, N.B.	3 pkgs	30	McLaren Imperial Cheese Co., Toronto.		McLaren's..
" 26	" ..	69407	Watson & Trice, Woodstock, N.B.	3 "	30	Pure Gold Mfg. Co., Ltd., Toronto.		Pure Gold..
" 26	" ..	69408	Yerxa Grocery Co., Woodstock, N.B.	3 "	50	Litster Pure Food Co., Ltd., Toronto.		Litster's...
June 6	" ...	69409	Mill Eveleigh Co., Ltd., Sussex, N.B.	3 "	45	Chas. B. Knox Co., Montreal.		Knox
" 7	" ..	69410	H.T. Brewster, Moncton, N.B.	3 "	45	J. & G. Cox, Edinburgh, Scotland.		Cox.....

DISTRICT OF QUEBEC CITY-

May 15	Gelatine..	56751	F. Langlois, 1175 St. Valier st., Quebec.	3 boite	30	Unknown	N. Turcotte.	Lady Charlotte.
" 15	" ..	56752	" " "	3 "	30	Cox.....	"	Cox.....
" 16	" ..	56755	J. N. Rondeau, Lachevrotiere, Quebec.	63 pks.	36	Unknown	J. B. Renaud.	Lady Charlotte.
" 16	" ..	56756	" " "	3 "	36	Knox	"	Knox

DISTRICT OF QUEBEC PROVINCE-

May 1	Gelatine.	4935	Robin Jones, Paspebiac, P.Q.	3 pks.	38	Georgie Mills, Edinburgh.		Cox.....
" 4	" ..	4986	Ferdinand Landry, Carleton, P.Q.	3 "	30			

DISTRICT OF MANITOBA-

April 2	Gelatine..	71809	Swift Co., (Canadian) Elmwood, Ont.	1 lb.	67	Peabody Co., Mass.		
May 29	" ..	71849	Robinson & Co., Main st., Winnipeg.	1 "	75	The Gelatine Agent Co., France.		
" 29	" ..	71850	The T. Eaton Co., Winnipeg.	1 "	80	French Co.....		
" 30	" ..	71851	Crescent Creamery Co., Bunnell st., Winnipeg.	1 "	41		F. H. Wyley, Winnipeg.	
" 30	" ..	71852	McLaren's, Ltd., Winnipeg.	1 "	80	Vendors.....		
" 30	" ..	71853	Gordon Ironsides & Fares, Logan ave., Winnipeg.	1 "	75	Unknown		
" 30	" ..	71854	Hudson's Bay Co., Winnipeg.	1 "	75			Made in Switzerland.

GELATIN—TABLE I.

No- 367-

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.	
	Total Ash.	Sulphites, Parts per 100,000.	Gelling power of 5% Solution.	Odour of 5% Solution.		Reaction with.		Physical Characteristics.					Analyst.
				After 4 hours.	After 2 days.	Litmus.	5% Alum Solution	Colour.	Transparency	Aggregation.			
NSWICK-													
<i>Concluded.</i>													
	p. c.												
McLaren's..	2.24	Trace.	+	Normal.	Normal.	Acid.	-	.....	.....	Powder.	A.J.L.	69406
Pure Gold..	1.76	33	+	"	"	"	-	.....	.....	"	"	69407
Litater's....	0.45	19	+	"	"	"	-	.....	.....	"	"	69408
Knox	1.23	....	+	"	"	"	-	.....	.....	Powder.	"	69409
Cox.....	1.86	....	"	"	"	"	-	.....	.....	"	"	69410
EC CITY-													
F. X. W. E. BELAND, INSPECTOR.													
Lady Charlotte.	1.50	.....	+	Normal.	Normal.	Neutral.	-	.....	.....	Shredded.	A.J.L.	56751
Cox.....	2.46	.....	"	Slightly gluey.	Slightly gluey.	Acid.	-	.....	.....	Powder.	"	56752
Lady Charlotte.	1.71	....	"	Normal.	Normal.	Neutral.	-	.....	.....	Shredded.	"	56753
Knox.....	1.10	.....	"	"	"	Acid.	-	.....	.....	Powder.	"	56756
ROVINCE-													
A. PELLETIER, TEMPORARY INSPECTOR.													
Cox.....	2.44	40	+	Slightly gluey.	Slightly gluey.	Neutral.	-	.....	.....	Shredded.	A.J.L.	4965
.....	3.04	....	"	Normal.	Normal.	Acid.	-	Red.	.....	"	"	4966
ANITOBA-													
I. B. COSGROVE, INSPECTOR.													
.....	1.54	11	Positive.	.....	Normal.	Neutral.	Negative.	White.	.....	Powder.	E.L.C.F	71809
.....	1.25	5	"	.....	"	"	"	Yellow white.	.....	Sheets.	"	71849
.....	2.08	77	"	.....	"	"	"	Brownish white.	.....	"	"	71850
.....	3.00	16	"	.....	"	Acid.	"	Yellow white.	.....	Powder.	"	71851
.....	2.10	44	"	.....	"	Neutral.	"	White.	.....	"	"	71852
.....	1.34	16	"	.....	"	"	"	"	.....	"	"	71853
Made in Switzerland.	1.90	77	"	.....	"	"	"	Brownish white.	.....	Sheets.	"	71854

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ALBERTA—

1916.								
May 30	Gelatine	52427	G. W. Buck, High River.	6 oz.	30	Coignet Père Filé & Co.	Simington & Co., Calgary.	Ground
June 13	"	52428	Carlisle Dairy Co., Calgary.	1 lb.	55	Hughes Gelatine & Co., Chicago.		Made in Switzerland.
" 13	"	52429	Hudson's Bay Co., Calgary.	1 "	90			Ground
" 14	"	52430	Rochon's, Ltd., Calgary.	1 "	55	F. W. Wiley, Winnipeg.		Powdered
" 15	"	52431	Campbell & Griffin, Ltd., Calgary.	1 "	55	Imperial Extract Co., Toronto.		Powdered
" 15	"	52432	Tuxedo Coffee & Spice Mills, Ltd., Calgary.	1 "	1.00	T. H. Wiley, Winnipeg.		Instant Powdered
" 15	"	52433	L. T. Mewburn & Co., Calgary.	1 "	80	J. & G. Cox, Edinburgh, Scot.		Sparkling
" 15	"	52434	" " "	1 "	90	Chas. B. Knox Co., Montreal.		
" 15	"	52435	Louis Petrie, Ltd., Calgary.	1 "	75	Tellier & Rothwell & Co., Montreal.		Made in Switzerland.
" 15	"	52436	James Findlay Drug Co.	1 "	1.25			

DISTRICT OF ROCKY MOUNTAINS—

May 5	Gelatine	68217	F. H. Jackson, Creston.	3 pks.	45	J. & G. Co., Edinburgh.		
" 5	"	68219	Creston Mercantile Co., Creston.	3 "	45	C. B. Knox & Co., Montreal.		

DISTRICT OF VANCOUVER—

June 26	Gelatine	55622	Empress Mfg. Co., Ltd., 1106 Homer St., Vancouver.	1 lb.	60	Tellier, Rothwell & Co., Montreal.		
" 26	"	55623	Mooney Biscuit & Candy Co., Homer & Drake Sts., Vancouver.	1 "	40	W. A. James, 318 Homer St., Vancouver.		
" 26	"	55626	" " "	1 "	55	Patten, McKenzie & Co., Yokohama, Japan.		Sold as Japanese Gelatine.
" 26	"	55627	Kelly Confectioner Co., 1106 Mainland St., Vancouver.	1 "	60	Unknown		
" 27	"	55628	Nelson, Shakespeare, Watkins Co., 136 Water St., Vancouver.	1 "	45	W. A. James, 318 Homer St., Vancouver.		

GELATIN—TABLE 1.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Sulphites, Parts per 100,000.	Gelatining power of 5% Solution.	Odour of 5% Solution.		Reaction with.		Physical Characteristics.			Analyst.		
			After 4 hours.	After 2 days.	Litmus.	5% Alum Solution	Colour.	Transparency.	Aggregation.			

A. W. R. MARKLEY, INSPECTOR.

p.c.													
0.92	60	Positive.	Normal.	Neutral.	Negative.	Red.	Clear.	Sheets.	W. A. D.	52427			
1.62	27	"	Faint.	"	"	Light brown.	Powder.	"	"	52428			
2.12	82	"	Normal.	"	"	Mica coloured	Clear.	Sheets.	"	52429			
2.94	5	"	"	"	"	Light brown.	Powder.	"	"	52430			
1.60	33	"	"	Acid.	"	White.	"	"	"	52431			
1.80	11	"	"	Neutral.	"	"	"	"	"	52432			
1.24	33	"	"	"	"	Light brown.	"	"	"	52433			
1.52	16	"	"	"	"	"	"	"	"	52434			
2.18	22	"	"	"	"	Mica coloured	Clear.	Sheets.	"	52435			
2.22	1.43	"	"	"	"	"	"	"	"	52436			

THOS. PARKER, INSPECTOR.

3.05	49	Normal.	Normal.	Acid.	Negative.	White.	Clear.	Powder.	J. A. D.	68217
1.50	2	"	"	"	"	"	"	"	"	68219

E. J. MORGAN, INSPECTOR.

2.95	50	Gluey.	Gluey.	Acid.	Negative.	Yellow white.	Translucent.	Powder.	J. A. D.	55622
3.65	75	"	"	"	"	Amber.	"	Grains.	"	55625
4.15	0	None.	None.	Alkaline.	"	White.	"	Sheets.	"	55626
1.35	0	Normal.	Normal.	Neutral.	"	Yellow white.	Clear.	"	"	55627
3.75	82	Gluey.	Gluey.	Acid.	"	Amber.	Translucent.	Grains.	"	55628

BULLETIN No. 367—

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1916.								
"	27	Gelatine..	55629 P. Burns & Co., Ltd., Vancouver.	1 lb.	....	Tellier, Rothwell & Co., Mont- real.	.....	.....
"	27	"	55630 Ramsay Bros. & Co., 990 Powell St., Vancouver.	1 "	45	Canada Glue Co.	.....	.....
"	27	"	55631 " "	1 "	90	Kwong Chong Co., 255 Georgia St. E., Van- couver.	.....	Sold as Jap- anese Gela- tine.
"	28	"	55632 Almonds, Ltd., Pender St., E., Vancouver.	400 1 "	50	Tellier, Rothwell & Co., Mont- real.	.....	.....
"	28	"	55633 Gavin Bros. & Leigh, '000 Pender St., E., Vancouver.	1 "	60	Kirkland & Rose, 312 Water St., Vancouver.	.....	.....

GELATIN—TABLE I.

Results of Analysis.												
Total Ash.	Sulphites, Parts per 100,000.	Gelatining power of 5% Solution.	Odour of 5% Solution.		Reaction with.		Physical Characteristics.			Analyst.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
			After hours.	After 2 days.	Litmus.	5% Alum Solution	Colour.	Trans- parency.	Aggre- gation.			
<i>Concluded.</i>												
p. c.												
2.50	58	.....	Gluey.	Gluey.	Acid.	Nega- tive.	Yellow white.	Trans- lucent.	Powder.	J. A.		5562
2.20	1	....	Glue.	Glue.	Neutral.	"	Brown.	"	Sheets.	"		55630
3.50	0	....	None.	None.	Alka- line.	"	White.	"	"	"		55631
1.90	64	...	Gluey.	Gluey.	Acid.	"	Yellow white.	"	Powder.	"		55632
1.75	78	.....	Normal.	Normal.	Acid.	"	White.	Clear.	"	"		55633

D. 367—

Inspector's Report.
(Is not an expression of opinion.)

OUVER—

old as Japanese Gelatine.

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC PROVINCE—

1916.								
April 27	Gelatine..	398	David Boivin, St. Jerome.	12 ozs.	30	.....	Pierre Simard, St. Jerome.	.....
May 2	" ..	5709	L. M. Morin, St. Jerome.	10 "	30	.....	Unknown	.....
" 10	" ..	72259	V. P. Richard, Berthier.	3 bxs.	30	.....	"	.....

DISTRICT OF EASTERN TOWNSHIPS—

May 3	Gelatine..	67880	Bray Bros., Sherbrooke.	1 lb..	60	.....	.....	.....
June 5	" ..	67881	Pagnuelo Cie, St. Hyacinthe.	3 "	68	.....	.....	.....
" 6	" ..	67882	Geo. Lebrocq, Waterloo, P.Q.	5 pkts.	75	Knox.....	.....	.....
" 6	" ..	67883	Waterloo Grocery Co., Waterloo, P.Q.	5 "	60	Cox.....	Hudon Orsali, Montreal.	.....

DISTRICT OF THREE RIVERS—

May 6	Gelatine..	5417	J. Robert, St. Gabriel Brandon.	3 bxs.	30
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DISTRICT OF HAMILTON—

May 16	Gelatine..	72865	L. E. A Jeans, Welland ave., St. Catharines.	1 lb..	50	Thos. McMahon, Toronto
" 18	" ..	72865	Geo. Vine, 41 Queen st., St. Catharines.	3 "	50	.....	McLaren's, Ltd., Hamilton.	.....
" 18	" ..	72867	Geo. Hood, 165 St. Paul st., St. Catharines.	1 "	25	.....	Thos. McMahon, Toronto	Vegetable
" 19	" ..	72868	Young Winfield, 89 Cannon st. W., Hamilton.	1 "	65	U. S. Glue Co., Milwaukee.	.....	.....
" 19	" ..	72869	The W. A. Freeman Co., Ltd., Hunter and Ferguson ave., Hamilton.	1 "	42	.....	Henry Dobbell Co., Ltd., Montreal.	.....
" 19	" ..	72870	The F. F. Dalley Co., 73 Hugheson st., Hamilton.	1 "	55	Essex Gelatine Co., Boston.	.....	.....
" 19	" ..	72871	The Armour Packing Co., Ltd., Wentworth st. N., Hamilton.	1 "	65	.....	McLaren's, Ltd., Hamilton.	.....
" 19	" ..	72872	John Duff & Son, Brant st., Hamilton.	1 "	50	.....	Young Winfield.	.....
" 23	" ..	72873	Canada Glue Co., Ltd., Brantford.	1 "	.....	Vendors.....	.....	.....

GELATIN TABLE II.

Results of Analysis.											No. of Sample.	Remarks and Opinion of the Chief Analyst.
Odour of 25% Hot Solution.	Turbidity of 25% Solution	Fusion Temperature of 25% Solution.	Viscosity, 25% Sol. 80°C. Alexander.	Viscosity, 25% Sol. 80°C. Doublet Torsion	Viscosity, Doublet in gran. sugar %.	Finger test 25% Solution. Alexander.	Ash.	Sulphurous Acid Parts per 100,000.	Analyst.			
N. CADIEUX AND T. GENDREAU, TEMPORARY INSPECTORS.												
Sweet ..	Clear ..	30	24	28	70.7	Soft hard.	1.30	109	M. B.	396		
Good ..	" ..	31	36	36	73.5	Hard.	1.78	38	"	5709		
Very good.	Very clear.	25	42	52	78.7	"	1.24	None	"	72269		
J. J. COSTIGAN, INSPECTOR.												
Good ..	Clear...	23	25	23	68.2	Soft hard.	1.90	96	M. B.	67840		
Gluey ..	Turbid.	18	26	20	66	Soft....	1.70	82	"	67881		
Very good.	Clear...	27	20	30	71.6	Hard ..	1.18	19	"	67882		
Good ..	" ..	24.5	34	27	70.2	Soft hard.	1.74	13	"	67883		
DR. V. P. LAVALLEE, INSPECTOR.												
Good ..	Clear...	27	.....	.....	.....	Hard ..	.....	.....	M. B.	5417	
H. J. DAGER, ACTING INSPECTOR.												
Acrid ..	Clear...	19	18	16	60	Soft....	1.80	20	M. B.	72365		
Little gluey.	" ..	23	19	20	66	Soft hard.	1.58	59	"	72866		
Gives no jelly.	.....	.....	.....	.....	.....	.....	3.88	None.	"	72867	
Sweet ..	Light turbid.	31	62	55	79	Very hard.	1.60	18	"	72868		
Good...	Very clear.	20	22	21	66.8	Soft ..	3.20	44	"	72869		
" ..	Clear ..	23	42	32	72.5	Soft hard.	1.32	18	"	72870		
Gluey ..	Turbid..	20	26	19	65	"	1.28	44	"	72871		
Very good.	Clear...	26	33	33	73	Hard...	1.36	88	"	72872		
"	Light turbid.	27	60	58	80	Very hard.	2.44	13	"	72873		

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.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VALLEYFIELD—

1916.								
May 19	Gelatine..	67741	A. Reil, Huntingdon, P.Q.	6 pkts.	72	Cox		
" 22	"	67742	R. Boissy, St. Lambert, P.Q.	5 "	75	Minute Tapioca Co.		
" 22	"	67743	" " "	5 "	75	Chas. B. Knox Co., Montreal.		
" 26	"	67744	A. Powell, Lancaster.	1 lb.	75			Imported...
" 30	"	67745	W. R. Simpson, St. John's, P.Q.	1 "	75		Laporte, Martin & Co.	
" 30	"	67746	A. Foisy, St. John's, P.Q.	3 "	75			

DISTRICT OF OTTAWA—

April 27	Gelatine..	73141	H. & E. Trudel, 175 King Edward Ave., Ottawa.	3 pkts.	45	Chas. B. Knox Co., Montreal.	E. M. Lerner & Son, Ottawa.	Knox Sparkling No. 1.
" 27	"	73142	" " "	3 "	90	Litster's Pure Food Co., Toronto.		Litster's Half Minute.
May 11	"	73503	The A. E. Rea, Co., Ottawa.	1 lb.	40	Unknown	Unknown	Red.....
" 11	"	73574	" " "	1 "	40	"	"	
" 11	"	73505	" " "	3 pkgs	38	J. & G. Cox, Edinburgh, Scot.		Instant Powdered.

DISTRICT OF KINGSTON—

May 2	Gelatine..	73157	I. T. Morria, Kingston.	1 lb.	60		Geo. Robertson, Kingston.	
" 2	"	73163	L. W. Murphy, Kingston.	3 pkgs	38	Cox, Edinburgh, Scotland.		
" 3	"	73166	R. Elvins, Belleville.	3 "	45	Chas. B. Knox Co., Montreal.		No. 1 Sparkling.
" 3	"	73170	Estate Hugh Crozier, Cobourg.	1 lb.	1.00		Hudon, Hebert Montreal.	Made in Switzerland

GELATIN.—TABLE II.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Odour of 25% Hot Solution.	Turbidity of 25% Solution.	Function Temperature of 5% Solution.	Viscosity, 25% Sol. 80° C. Alexander.	Viscosity, 25% Sol. 80° C. Doolittle Torston	Viscosity, Doolittle in grm. Sugar $\frac{1}{2}$ c.	Finger test 25% Solution, Alexander.	Ash.	Sulphurous Acid, Parts per 100,000.	Analyst.		

J. J. COSTIGAN, ACTING INSPECTOR.

Good...	Clear...	23	43	31	70.2	Soft hard.	1.84	13	M.B.	67741
Very Good.	Very Clear.	26	60	36	73.5	Very hard.	0.90	6	"	67742
Good...	Clear...	26.5	31	30	71.6	Hard...	1.10	13	"	67743
Bad, Sheepy.	"	21	21	20	66	Soft ..	2.10	50	"	67744
Goo...	"	18	25	18	62.5	"	1.79	60	"	67745
Gluey ..	"	27	30	28	70.7	Soft hard.	2.00	160	"	67746

J. A. RICKEY, INSPECTOR.

Good...	Clear...	26	27	28	70.7	Hard. .	1.12	13	M.B.	73141
Acrid ..	Turbid..	21	19	20	66.	Soft hard.	2.50	18	"	73142
Bad, Sheepy.	Clear ..	27	40	32	72.5	Hard...	1.22	13	"	73503
Sweet ..	Turbid..	19	27	20	69.	Soft...	1.76	32	"	73504
Good ..	Clear...	25	28	32	72.5	Hard..	2.38	32	"	73505

J. A. RICKEY, ACTING INSPECTOR.

Good..	Clear...	21	34	24	69.	Soft hard.	0.98	32	M.B.	73157
"	"	25	32	32	72.5	Hard..	2.14	13	"	73163
Good but acrid	"	28	29	31	72	"	1.16	13	"	73166
Sweet ..	"	20	21	21	66.8	Soft hard.	1.80	32	"	73170

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).
				Quantity.	Cost.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1916.								
May	2	Gelatine	72768	Swift Canadian Co., West Toronto.	1 lb.	.....	Essex Gelatine Co. Boston, U. S.A.	.....
"	2	"	72769	Gunn's Ltd., West Toronto.	1 "	.....	Vendors	.....
"	2	"	72770	McLaren's Imperial Cheese Co. Toronto	1½ "	90	.....	Unknown.....
"	2	"	72772	The Bowes Co., Ltd., 76 Front street, E. Toronto.	1 "	37	.....	Canada Glue Co., Brant- ford.
"	2	"	72773	" " "	1 "	37	.....	Tellier Roth- well, Montreal.
"	2	"	72774	R. B. Hayhoe & Co., 47 Colborne street, Toronto.	1 "	65	.....	B. Cannon & Co. Toronto.
"	3	"	72775	The T. Eaton Co., Ltd., Yonge and Queen sts., Toronto	1 "	50	McLaren's Ltd. Hamilton.	.....
"	3	"	72776	Matthews Laing Ltd. Bathurst and Front streets, Toronto.	1 "	10	Vendors	.....
"	3	"	72777	McLaren's Imperial Cheese Co., 69 Front street, E. Toronto.	1 "	60	Unknown	.....
"	4	"	72778	Roger & Co., 268 Pape ave. Toronto.	1 "	25	Vendor	.....
"	4	"	72779	Imperial Extract Co. 10 Matilda street, Toronto.	1 "	75	U.S. Glue Co., Milwaukee.	.....
"	4	"	72780	Wm. Neilson, Ltd., 307 Gladstone ave., Toronto.	1 "	55	Jos. Chalmers & Sons, Williams- ville, N.J.	.....
"	4	"	72781	Pure Gold Mfg. Co., Ltd., 381 College st. Toronto.	1 "	.....	Essex Gelatine Co., Boston.	.....
"	5	"	72782	Lister Pure Food Co., 1297 Queen st., W. Toronto.	1 "	60	B. Cannon, Lin- coln, Eng.	.....
"	5	"	72783	The White Swan S. & C. Ltd., 156 Pearl street, Toronto.	1 "	60	Forwood Bros., & Donaldson, Ltd. London, E	.....

DISTRICT OF WINDSOR—

May	18	Gelatine..	64978	J. T. Karry, Chat- ham, Ont.	1 lb.	1 00	.....	Rose & La- flamme, Mont- real.
"	19	"	64983	A. D. Brander, Wall aceburg, Ont.	7 ozs.	40	Unknown	.....
"	23	"	64991	And. Konggas, St. Mary's, Ont.	1 lb.	90	.....	Thos. McMa- hon, Toronto.
"	25	"	64992	Gorman Eckert Co., London, Ont.	1 "	50	.....	U.S. Glue Co., Milwaukee.
"	25	"	64993	I. X. L. Spice Co., London, Ont.	1 "	65	.....	Tellier & Roth- well Co., Montreal.

GELATIN TABLE II.

Inspector's Report. (Is not an expression of opinion).

Results of Analysis.

Colour of 25% Hot Solution.	Turbidity of 25% Solution	Fusion Temperature of 5% Sol.	Viscosity, 25% Sol. 80° C. Alexander.	Viscosity, 25% Sol. 80° C. Double Torsion	Viscosity, Double in grm. sugar %.	Finger test 25% Sol. Alexander.	Ash.	Sulphurous Acid, Fats per 100.000.	Analyt.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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DRONTO-

H. J. DAGER, INSPECTOR.

Very good.	Clear...	28	40	33	74.4	Hard...	1.66	32	M. B.	72768	
Bad	Turbid..	Below 19				Very Soft.			"	72769	
Gluey...	Turbid..	18.5	27	18	62.5	Soft...	2.90	20	"	72770	
Sweet..	Clear...	23	26	22	68	Soft Hard.	1.82	18	"	72772	
Gluey...	Turbid..	19.5	22	17	61.9	Soft	1.94	32	"	72773	
Good...	Very Clear.	28	38	33	73	Hard...	1.60	64	"	72774	
"	Clear...	24	35	27	70.2	Soft Hard	1.50	44	"	72775	
Very Bad.	Turbid..	Below 19				Very Soft.			"	72776	
Good...	Clear...	26	25	25	69.6	Hard...	1.84	20	"	72777	
Very Bad.	Turbid..	Below 19				Very Soft.			"	72778	
Sweet.	Light Turbid.	32	68	45	77	Very Hard.	1.28	64	"	72779	
Good...	Clear...	28.5	37	32	72.5	Hard...	1.71	18	"	72780	
"	"	27	30	30	71.5	Soft Hard.	1.70	12	"	72781	
Sweet..	Very Clear.	23	30	27	70.2	Hard...	1.76	1.28	"	72782	
Good...	Clear...	22	38	22	67.5	Soft.	1.04	44	"	72783	

INDSOR -

JOHN TALBOT, INSPECTOR.

Good.	Light Turbid.	29	37	27	70.2	Soft Hard.	1.08	25	M. B.	64978	
"	"	31	40	32	72.5	Hard...	3.10	70	"	64983	
Sweet	Clear...	22	22	22	67.5	Soft Hard.	1.50	50	"	64991	
Good...	Light Turbid.	29	55	59	80.5	Very Hard.	1.60	64	"	64992	
Very acrid.	Clear...	22	20	18	62.5	Soft	2.20	13	"	64993	

BULLETIN No. 367—JELLY POWDERS—TABLE III.

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cwt.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. S O ₂ parts per 2000.	No. of Samples.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cent.	Manufacturer.	Furnisher.				

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

1916.	May 15, Jelly Powder.	56753	E. Lareher, 2 Ave. Tournai, 3 boul. Ste. Anne, Quebec, Que.	30		Unknown	Unknown	.....	Trace ..	56753	
"	" 15 "	56754	" " " "	30		"	Molain, Rue Grant	.....	" ..	56754	

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU, T. GENDREAU, A. PELLETIER, TEMPORARY INSPECTORS.

May 20	Jelly Powder.	5347	Jos. Dussault, Ste. Hene, 3 pte. Ste. Anne, P.Q.	15		J. B. Renaud, Quebec, Que.	.....	.....	Trace ..	5347	
" 23 "	"	5328	J. F. Fortier, St. Henri, 3 P.Q.	30		N Turcotte, Quebec.	.....	.....	" ..	5328	
" 24 "	"	5329	C. Noel, St. Jean Chrysost, 3 P.Q.	30		Carrier & fils, Lévis,	.....	.....	" ..	5329	
" 27 "	"	5341	F. E. Moore, St. Bernard, 3 P.Q.	30		Beo Starch Co., Montreal.	.....	.....	" ..	5341	
" 29 "	"	5344	J. E. Gagne, St. Maxime, 3 P.Q.	15		G. E. Couture, Lévis, Que.	.....	.....	" ..	5344	
" 30 "	"	5337	J. F. Croteau, St. Maxime, 3 P.Q.	36		Dalton Bros., Toronto, Onto.	.....	.....	" ..	5337	
April 27	"	4310	Alf. J. J. J. J., St. Philémon, 3 P.Q.	30		Puritas Products, Quebec.	.....	.....	" ..	4310	
" 28 "	"	4316	Douc. Lavelle, St. Mag, 3 P.Q.	30		Herron Leblanc Ltd., Quebec.	.....	.....	" ..	4316	

May	2	"	"	"	4340	C. Beaudoin, Armagh, P. Q.	30	Turcotte Freres, Quebec.	"	4340
"	9	"	"	"	72256	J. B. Poirier, St. Thomas, P. Q.	30	"	"	72256
"	12	"	"	"	72261	L. Bernatchey, St. Francis, P. Q.	30	Pure Gold Mfg. Co., Toronto.	"	72261
"	1	"	"	"	4970	J. P. LeGrand, Paspébiac, P. Q.	30	Herron Leblanc Mon. metal.	"	4970
"	2	"	"	"	4977	J. H. Buford, Bonaventure, P. Q.	36	S. H. Ewing & Son, Montreal.	"	4977
"	4	"	"	"	4988	Mde. E. Alain, Carleton Place, P. Q.	36	Drouin Freres & Rattray, Que.	"	4988



BULLETIN No. 367—JELLY POWDERS. TABLE III.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Coat.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. S O ₂ parts per 2000.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.				
DISTRICT OF THREE RIVERS—D. V. P. LAVALLEE, INSPECTOR.											
1916.	April 24	Jelly Powder..	69279	Omer Seguin, St. Paul	3	25	Pure Gold Mfg. Co., Toronto.	Hudon Orsati, Montreal.	Trace....	69279	
"	"	"	69280	L'Erinite, Ed. Robillard, St. Paul	3	30	"	"	"	69280	
"	"	"	69281	L'Erinite, A. C. Duff, Charlemagne..	3	25	Imperial Extract Co., Toronto.	"	"	69281	
"	"	"	69282	Louis Provost, L'Epiphanie	3	30	Pure Gold Mfg. Co., Toronto.	Hudon Hebert, Montreal.	"	69282	
"	"	"	69283	J. E. Charbonneau, Mar- couche, Joliette	3	30	"	Hudon Orsati, Montreal.	"	69283	
May	"	"	5409	L. J. Poulet's, St. Thomas,	3	30	S. H. I'wing, Montreal.	"	"	5409	
"	"	"	5411	Camille Barrette, Joliette.	3	30	Pure Gold Mfg. Co., Toronto.	"	"	5411	
"	"	"	5414	Wm. Perrault, Joliette....	3	30	Bee Starch Co., Toronto.	"	"	5414	
DISTRICT OF EASTERN TOWNSHIPS—E. BLONDIN, TEMPORARY INSPECTOR.											
April 26	Jelly Powder..	4054	Paul Thibault, Victoriaville, P. Q.	3	45	The Genese Co., Bridgeport.	"	"	Trace....	4054	
May	"	"	L. C. Oliver, Sherbrooke, P. Q.	3	30	McLaren's, Toronto.	"	"	"	4056	
"	"	"	Gerard Touchette, Sher- brooke, P. Q.	3	30	Pure Gold Mfg. Co., Toronto.	"	"	"	4078	
"	"	"	Ulric Lemare, Drummond- ville, P. Q.	3	30	O. Macphair, Drummondville.	"	"	"	4087	

