



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No 376

PEANUT BUTTER

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 OTTAWA, CANADA.

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PEANUT BUTTER

OTTAWA, 8th June, 1917

J. U. VINCENT, Esq., K. C., B. A., L. PH.,

Deputy Minister of Inland Revenue

SIR,

I beg to hand you a report upon 33 samples purchased by our inspectors as Peanut Butter.

This article appears to be essentially the roasted and ground kernel of the peanut (*Arachis hypogæa*). Its average composition, as found by analysis of the samples herein reported, is as follows :

Average composition

Acidity. 25 Samples	2.34 N per 100 grammes.
Water..... 33 "	1.41 per cent
Protein..... 33 "	27.45 " "
Fat..... 33 "	47.55 " "
Sugars..... 20 "	5.58 " "
Starch..... 20 "	7.56 " "
Fibre..... 20 "	1.22 " "
Salt..... 33 "	1.18 " "
Ash..... 33 "	3.03 " "
(including salt)	
Refractive index of fat, at 25° C.....	1.4695
Iodine number of fat.....	93.2

U. S. Standards (Leach, Foods Xc. 2nd Edn. p. 522)
 Refr. Index at 25° C 1.4690 to 1.4707
 Iodine number 87 to 100

The mean composition of a number of samples analyzed at the Connecticut Agr. Expt. Station, and purchased as Peanut Butter, or Peanolia, is as below ; (Wiley, Foods, etc., 2nd Edn. p. 421).

	Peanut Butter	Peanolia
Water.....	2.10	1.98
Protein.....	28.66	29.94
Fat.....	46.41	46.68
Sugar and Dextrin.....	6.13	5.63
Starch.....	6.15	5.58
Insoluble cellulose.....	2.30	2.10
Common salt.....	3.23	4.95
Ash.....	0.80	1.08

The analysis of ground peanut cake is thus given by Bolton and Revis, (Fatty Foods, 1913, p. 204)

Moisture.....	10.68
Oil.....	5.81
Carbohydrates.....	30.49
Proteids.....	45.12
Fibre.....	5.84
Ash.....	4.06
Sand.....	0.23

This represents the natural and unroasted nut, decorticated.

Peanut Butter is a highly nutritious and wholesome food material; and so far as this examination goes, it appears to be furnished, to the Canadian consumer, without any adulteration. This is the first occasion upon which the article has been subjected to inspection by this Department. I beg to recommend publication of this report as Bulletin No. 376.

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

A. MCGILL,
 Chief Analyst.

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

—DISTRICT OF NOVA SCOTIA —

1917	March	8	Peanut Butter	76451	F. S. Short, Halifax	3 jars	30	McLarens Imperial Cheese Co. Toronto	John Tobin Halifax
"	"	8	"	76452	S. S. Smith & Son, Halifax. .	"	45	Heinz & Co., Leamington	"
"	"	22	"	76453	Shand Bros, Windsor, N.S. . .	"	48	Wm. Clark Ltd., Montreal	R.B.Seaton

DISTRICT OF QUEBEC CITY —

Jan.	10	Peanut Butter	56879	J. M. Dechene, 348 rue Arago Quebec	1½lb	30	W. Clark	Turcotte Frère
"	10	"	56880	O. Doré, 146 Rue Bayard, Quebec	"	45	McLarens	Unknown
"	10	"	56881	Mad Denis, 92 rue Bayard, Quebec	"	"	E. K. P. Packing Co. Chicago	"
"	10	"	56882	Ph. Pelchat, 90 rue Bayard, Quebec	"	30	W. Clark	"
"	10	"	56883	M. Pouliot, 367 rue St-Joseph Quebec	"	30	Meadows Sweet. . . .	Bedard & Frère

DISTRICT OF MONTREAL —

March	8	Peanut Butter	74946	W. H. Higgins, 1043 Wellington St., Verdun	3jars	45	McLarens' Imperial Cheese Co.	.....
"	8	"	74947	N. B. Perkin's 1220 Wellington St. Verdun	"	30	W. Clark, Ltd.	.....
"	8	"	74948	Beaudoin & Couture, 497 LaSalle Rd., Verdun	"	35	.....	Rose & Laflamme
"	8	"	74949	E. Smyth, 509 LaSalle Rd., Verdun	"	30	Sweet Cheese Co., Ltd.	.....
"	9	"	74950	L. LeBlanc, 143 Church Ave. Verdun	"	45	Heinz.	.....

DISTRICT OF OTTAWA —

1916	Dec.	20	Peanut Butter	73766	Miss Wilson, Shawville.	3 jars	30	Maples Ltd, Toronto	F. J. Castle Ottawa
"	"	22	"	73774	Matthews Blackwell Ltd, 10-10 Wellington St, Ottawa	1½lb	38	McLarens	.....
"	"	23	"	73780	W. H. Gardiner, Cornwall . . .	"	30	Wm. Clark Ltd, Montreal	.....
1917	Jan	3	"	73525	J. Bambrick, Ottawa	"	"	Maples Ltd, Toronto	Bell's fec
"	"	3	"	73527	J. H. Kelly, O'Connor & Albert Sts., Ottawa	3 "	75	Vendor	.....

DISTRICT OF TORONTO —

Jan.	4	Peanut Butter	75524	Ideal Grocery Co., 742 Queen St., E. Toronto	3 jars	30	McLarens' Imperial Cheese Co. Ltd.	.....
"	4	"	75525	Loblaws Stores, 891 Queen St Toronto	"	45	Maples Ltd., Toronto	.....
"	4	"	75526	J. Williams, 1351 Queen St., E., Toronto	"	"	H. J. Heinz & Co., Leamington	Bell's fec
"	10	"	75527	The Wm. Davies Co., Ltd, 1695 Dundas St., Toronto	1½lb	32	W. Clark, Ltd., Montreal	.....
"	11	"	75528	The Woolllings Co., 169 McCaul St., Toronto	1 "	22	The Bowes Co. Ltd, Toronto	.....

PEANUT BUTTER

Inspector's Report (Is not an expression of opinion).	Results of Analysis											Number of Sample	Remarks and Opinion of the Chief Analyst
	Soundness	Acidity c.c. N/10 Soda per 100 gm.	Moisture %	Total Ash %	Chlorides as NaCl, %	Protein %	Crude Fibre	Sugars as In- vert Sugar %	Starch %	Fat %	Iodine No. of fat			Refractive Index @ 25° C.

R. J. WAUGH, INSPECTOR

.....	Good	.....	1.84	4.38	2.14	32.33	.....	.....	.....	43.93	97.4	1.4687	76451	Genuine
.....	"	.....	1.99	4.15	1.64	29.34	.....	.....	.....	43.29	97.1	1.4686	76452	Genuine
.....	"	.....	1.70	4.22	1.81	27.58	.....	.....	.....	46.27	96.2	1.4687	76453	Genuine

F. X. W. E. BELAND, INSPECTOR

.....	Good	.....	1.52	3.79	1.60	27.61	.....	.....	.....	44.83	97.1	1.4688	56879	Genuine
.....	"	.....	0.66	4.43	2.00	33.42	.....	.....	.....	45.41	97.3	1.4688	56880	Genuine
.....	"	.....	0.98	2.99	0.90	30.78	.....	.....	.....	46.97	6.3	1.4688	56981	Genuine
.....	"	.....	1.15	3.48	1.35	29.40	.....	.....	.....	44.80	97.0	1.4687	56882	Genuine
.....	"	.....	0.76	4.70	2.29	27.91	.....	.....	.....	45.64	96.4	1.4687	56883	Genuine

D. J. KEARNEY, INSPECTOR

.....	Good	2.3	0.93	2.50	1.71	25.3	1.19	6.42	9.09	48.10	87.32	1.470	74946	Genuine
.....	"	3.1	2.08	2.20	2.29	25.5	1.07	6.70	8.55	51.02	92.1	1.469	74947	Genuine
.....	"	2.2	2.46	2.00	0.83	26.2	1.21	6.20	8.12	48.31	90.2	1.469	74948	Genuine
.....	"	1.8	1.44	2.47	2.11	2.70	1.35	5.76	6.10	49.71	91.8	1.470	74749	Genuine
.....	"	2.0	1.82	2.28	1.43	26.8	1.24	6.58	7.13	47.41	95.3	1.470	74950	Genuine

J. A. RICKEY, INSPECTOR

Bells Perfection Impérial	Good	1.9	0.98	4.05	1.37	24.5	1.36	8.80	6.8	48.50	100.2	1.470	73766	Genuine
.....	"	2.3	0.90	2.29	0.68	32.11	1.32	5.40	4.4	50.10	90.2	1.470	73774	Genuine
.....	"	2.4	1.21	2.93	1.57	27.07	1.59	4.70	7.3	46.03	90.7	1.470	73780	Genuine
Bell's Perfection	"	2.3	1.80	2.34	0.36	26.77	1.46	3.70	9.5	48.70	91.8	1.470	73525	Genuine
.....	"	2.7	2.71	2.16	0.99	28.40	1.44	5.42	7.9	46.87	95.3	1.470	73527	Genuine

H. J. DAGER, INSPECTOR

.....	Good	2.2	1.20	2.62	1.73	26.0	1.26	6.27	8.51	47.9	91.0	1.470	75524	Genuine
Bell's Perfection	"	2.1	1.02	2.53	0.32	30.18	0.22	7.18	4.70	47.6	89.2	1.470	75525	Genuine
.....	"	2.4	1.91	2.17	1.39	26.6	1.31	6.43	6.92	48.1	89.7	1.470	75526	Genuine
.....	"	2.6	1.87	2.53	0.86	26.28	1.42	4.40	8.10	46.72	99.7	1.470	75527	Genuine
.....	"	2.0	1.97	3.41	0.95	26.50	1.53	4.34	8.10	46.93	93.3	1.470	75528	Genuine

Date of Collection	Nature of Sample	Name of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor	
				Quantity	cts.	Manufacturer.	Furnisher
DISTRICT OF MANITOBA —							
1917 Feb.	8	Peanut Butter	75195 Partington & Mawson, 857 Westminister Ave. Winnip	3jars	45	McLaren's Toronto.	.....
"	9	"	75196 J. Gadway & Co, Toronto & Portage Ave, Toronto	"	75	Beechnut Pack Co, New-York	.....
"	9	"	75197 J. A. McDowell, 646 Portage Ave., Winnipeg	"	"	Canada Nut Co., Vancouver	.....
"	9	"	75198 J. H. Grainger, Westminister & Evanson, Winnipeg	"	60	Bosman & Lohman Norfolk Vt. U.S.A.	.....
"	9	"	75199 J. A. McKercher, 600 Main Winnipeg	"	"	A. E. Thompson, Chicago	.....
DISTRICT OF VANCOUVER —							
Jan.	17	Peanut Butter	55869 C. A. Walsh Ltd. 681 Columbia St. New Westminister.	3cans	75	Canada Nut Co. Vancouver	.....
"	18	"	55870 J. Behal, 702 Richards St., Vancouver	3 jars	45	McLarens Imperial Cheese Co., Ltd., Toronto	.....
"	18	"	55871 Hudson's Bay Co, Grenville & Georgia, St. Vancouver	"	"	Beechnut Packing Co (Panajorahie N. Y.)	.....
"	18	"	55872 " " " "	"	"	Mrs M. A. Porter, Seattle U. S. A.	.....
"	18	"	55873 Woodward Dept. Stores, Hastings & Abbott, Vancouver	"	75	Geo. A. Bayle St-Louis	.....

PEANUT BUTTER

Inspector's Report (Is not an expres- sion of opinion)	Results of Analysis													Number of Sample	Remarks and Opinion of the Chief Analyst
	Soundness	Acidity c N/l. Soda per 100 gm.	Moisture %	Total Ash %	Chlorides as Na Cl. %	Protein %	Crude Fibre	Sugar ₂ as In- vert Sugar %	Starch %	Fat %	Iodine No. of fat	Refractive Index & 25° C			

J. B. COSGROVE, TORONTO

.....	Good	3.3	0.53	2.80	0.65	29.05	.....	.....	.....	49.3	.....	1.4695	75195	Genuine
.....	"	3.6	1.36	2.36	Trace	29.45	.....	.....	.....	47.22	.....	1.4696	75196	Genuine
.....	"	1.5	1.34	2.96	0.95	27.74	.....	.....	.....	48.77	.....	1.4696	75197	Genuine
.....	"	1.5	0.26	2.35	0.22	30.86	.....	.....	.....	46.93	.....	1.4692	75198	Genuine
.....	"	1.8	0.37	2.75	0.40	30.79	.....	.....	.....	48.12	.....	1.469g	75199	Genuine

G. G. ARMYTAGE, INSPECTOR

Squirrel Brand	Good	2.0	1.30	2.93	0.87	28.35	0.90	3.81	8.40	52.54	91.89	1.469	55869	Genuine
.....	"	2.5	1.68	3.08	0.68	28.10	0.95	4.58	7.41	48.32	87.32	1.470	55870	Genuine
Beechnut Brand	"	2.6	1.52	4.11	1.76	28.90	1.10	5.32	7.71	48.98	85.29	1.470	55871	Genuine
Porter's (Ho- memade	"	2.1	2.15	3.12	1.08	28.50	1.35	3.87	8.94	48.60	92.10	1.469	55872	Genuine
Purity Pledge	"	3.4	1.24	3.06	0.93	30.25	1.20	7.76	7.50	47.16	90.36	1.470	55873	Genuine