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(Monographs)**

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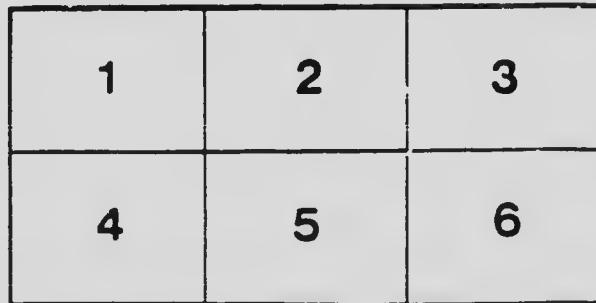
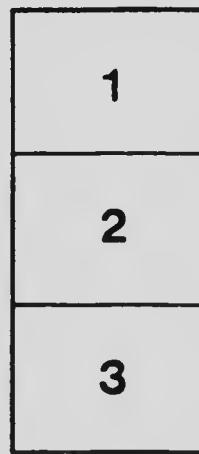
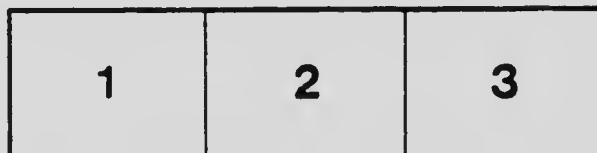
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 266

LINSEED OIL

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 266

LINSEED OIL

WM. HEMSWORTH, Esq.,
Deputy Minister,
Inland Revenue.

OTTAWA, September 6, 1913.

Sir, I beg to hand you herewith a report dealing with Linseed Oil. This report gives you, in synoptical form, the analytical results obtained with, and other information concerning, fifty-three samples (53) purchased by our inspectors during December of last year and January of the present year.

Linseed Oil comes within the scope of the Adulteration Act both as a drug and as a paint material, being included, in admixture with white lead, in Schedule 4 of the Act.

Regarded as a drug, it is described by the British Pharmacopoeia as follows:— (Ed. 1898).

"The oil expressed from Linseed at ordinary temperature. Characters: viscid, yellow, with a faint but distinct odour and bland taste. Specific gravity, 0.930 to 0.940. It is soluble in 10 parts of alcohol (90 per cent) and in oil of turpentine. It gradually thickens, by exposure to the air, forming, when spread in a thin layer on glass, a hard, transparent varnish. It does not congeal above 4 deg. Fahr. (—20 deg. C.)."

This description applies to the article known as Raw Oil.

The chief value of Linseed Oil derives from its use as a paint and varnish material. It rapidly absorbs atmospheric oxygen, with formation of a tough, resinous incrustation, and is the best known example of a so-called "drying" oil. The readiness with which it takes up oxygen is increased by heating to 180 deg. C., and especially by heating in presence of certain metallic oxides or salts. When it has undergone this treatment it is known as "Boiled" Oil.

Owing to the fact that commercial Linseed is never pure, it follows that the oil expressed from such seed varies in character, within limits, depending upon the nature and amount of foreign seeds in admixture. The following extremes are quoted from Allen's Commercial Organic Analysis, 4th Ed., Vol. II, p. 70:—

Specific gravity at 15.5 deg. C.	0.9315 to 0.9410
Solidification point.	—16 deg. to —27 C.
Melting point of fatty acids.	17 " to 24 C.
Saponification value.	190 " to 201
Reichert Meissl value.	0
Hehner value.	95 to 95.5
Iodine value.	175 to 201

Linseed oil, both raw and boiled, is frequently adulterated by addition of hydrocarbons, rosin oil and fish oils. Cotton seed oil has sometimes been employed as an adulterant, and soya bean oil is suspected.

Owing to the great variety and diverse character of available adulterants for linseed oil, and to the inevitable variability of the article even when commercially genuine, the detection of adulteration in linseed oil is far from being a simple matter. Large buyers of linseed oil would do well to furnish specifications of the article they demand, or purchase by sample. The American Society for Testing Materials fixed the following specification for the year 1900 (Oil and Colour Journal, 1900, 36):—

Raw Linseed Oil.	Max.	Min.
Specific gravity at 15 Deg.	0·936	0·932
" " at 15 " 25 "	0·931	0·927
Acid number	6·000	
Saponification value	193·5	189
Unsaponifiable matter	1·5	
Refractive Index at 25 Deg.	1·4805	1·4790
Hans Iodine value	190	178
		180

See Col K
Vol 1

The accompanying tables will furnish information regarding Linseed Oil as found in Canadian markets. Since most of these samples were supplied as for use in the arts, and not as drugs, it would not be just to apply to them, in strictness, the Standard of the British Pharmacopeia. As judged upon the whole results of analysis, I have been able to classify them as follows:—

Apparently genuine.	36	samples.
Of doubtful genuineness.	10	"
Adulterated	7	"
Total.	53	"

The chief adulteration found consists in addition of mineral oil, which undoubtedly forms the main adulterant on this continent.

This is the first occasion upon which a systematic examination of Linseed Oil has been made under the Adulteration Act, and the principal value of this report consists in its bringing to notice the fact that adulteration of linseed oil is not unknown in Canada. There can be no doubt that the most effective way to prevent adulterated linseed oil coming into our country would be the adoption of the plan which I have already recommended, namely, the purchase of the article to carefully prepared specification.

I beg to recommend the publication of this report as Bulletin No. 266.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,

Chief Analyst.

BULLETIN No. 266—

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 Vendor.	
					Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1913.								
Jan. 16	Linseed Oil.	46651	Wm. Stairs Son & Morrow, 1 qt., Halifax, N.S.	25	Canadian Lin-seed Oil Co., Toronto.		Mfrs.	
" 16	"	46652	Crowell Bros., Halifax, N.S. 1 "	25	"		"	
" 16	"	46653	A. M. Bell & Co., Halifax, 1 " N.S.	30	Unknown		Unknown	
" 14	"	46654	Nat. Drug Co., Halifax, N.S. 1 "	45	Dominion Lin-seed Oil Co., Toronto.		Mfrs.	
" 16	"	46655	Wm. Stairs Son & Morrow, 1 " Halifax, N.S.	25	Canadian Lin-seed Oil Co., Toronto.		"	
" 24	"	46656	Jas. Simmond Co., Dartmouth, 1 " N.S.	25	"		"	

DISTRICT OF QUEBEC—

1912.								
Dec. 19	Linseed Oil.	37292	H. Young, 111 Rue du Pont, 3 pints Quebec.	43	Canadian Seed Oil Co.		Mfrs.	
" 20	"	37293	E. Martineau, 135 Rue St. Joseph, Quebec.	45	Irving Williams B.		"	
" 20	"	37294	C. A. Parent, 105 Rue St. Joseph, Quebec.	50	Canadian Seed Oil Co.		"	
" 19	"	37295	N. Young, 111 Rue du Pont, 1 " Quebec.	43	"		"	
" 20	"	37296	E. Martineau, 135 Rue St. Joseph, Quebec.	45	Irving Williams B.		"	
" 21	"	37297	C. A. Parent, 106 Rue St. Joseph, Quebec.	50	Canadian Seed Oil.		"	

DISTRICT OF EASTERN QUEBEC—

Dec. 24	Linseed Oil.	53303	Talbot Ltd., Rimouski, P.Q.	1 pt..	17	Oil, Montreal	....
" 24	Oil.....	53304	" " " ..	1 " ..	17	"	....
" 26	Linseed Oil.	53309	T. Pelletier, Fraserville, P.Q.	1 " ..	15	Livingston Lin-seed Oil, Montreal.	....
" 27	"	53312	Union Agricole, St. Pascal, P.Q.	1 " ..	20	Sherwin-Wif-liams, Co.	....
" 27	Oil.....	53313	" " " ..	1 " ..	20	"	....

LINSEED OIL.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.						No. of Sample	Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15° C.	Specification Number.	Mannine.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70° C.		
R. J. WANGH, INSPECTOR.								

Boiled	0·935	198·9	117·5	Linseed .....	.....	24 hours....	46651	
"	0·935	191	112	Slight indication of mineral & other oils.	2·04 15	"	46652	Doubtful.
"	0·941	199·5	111	Indicates adulteration.	1·66 36	"	46653	"
Raw	0·934	196	116	Linseed .....	.....	48 "	46654	
"	0·932	198	112	" .....	.....	48 "	46655	
"	0·932	197·8	111	" .....	.....	48 "	46656	

F. X. W. E. BELAND, INSPECTOR.

Boiled	0·935	196	105	Linseed .....	.....	24 hours ..	37292	
"	0·937	190	118	" .....	.....	2·70 12 "	37293	
"	0·938	198·7	105	" .....	.....	20 "	37294	
Raw	0·94	154·5	108	Indication of mineral oil.	19·76 36	"	37295	Adulterated.
"	0·935	194·6	120	Linseed .....	.....	36 "	37276	
"	0·933	193·2	108	" .....	.....	36 "	37297	

A. PELLETIER, INSPECTOR.

Raw	0·934	196	114	" .....	.....	36 hours ..	53303	
Boiled.....	0·934	186·3	120	Mineral oil	5·00 30	"	53304	Doubtful.
"	0·935	176·8	128	Indication of foreign oil.	5·12 15	"	53309	"
Raw	0·942	189	119	Linseed .....	.....	90 "	53312	
Boiled.....	0·932	196·5	114	" .....	.....	48 "	53313	

BULLETIN No. 266—

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.	
					Quantity. Cents.	Manufacturer.	Furnisher.

DISTRICT OF EASTERN TOWNSHIPS—

1913.							
Jan. 29	Linseed Oil.	51166	W. C. Webster & Sons, Coati-cook.	1 qt.	25	.....	.....
" 30	"	51167	E. Boucher, St. Hyacinthe....	1 "	25	.....	.....
" 30	"	51168	S. Bourgeois Co., Incorporated St. Hyacinthe.	1 "	20	.....	.....
" 29	"	51169	W. C. Webster & Sons, Coati-cook.	1 "	25	.....	.....
" 30	"	51170	E. Boucher, St. Hyacinthe....	1 "	25	.....	.....
" 30	"	51171	Beauoyer & Lalime, St. Hyacinthe.	1 "	30	.....	.....

DISTRICT OF MONTREAL—

Jan.	8	Linseed Oil.	51082	H. Sylvester & fils, 1111 St Lawrence Boulevard, Montreal.	3 pts.	45	Mount Royal Colour & Varnish Co., Ltd.	.....
"	8	"	51083	The People's Hardware Co., 152 St. Lawrence Boulevard, Montreal.	3 "	45	.....	.....
"	8	"	51084	Beauoyer & Brouillet, 1387 St Lawrence Boulevard, Montreal.	3 "	45	Mount Royal Colour & Varnish Co., Ltd.	.....
"	8	"	51085	St. Lawrence Hardware Co., 993 St. Lawrence Boulevard, Montreal.	3 "	36	A. Ramsay Son & Co.	.....
"	8	"	51086	The People's Hardware Co., 152 St. Lawrence Boulevard, Montreal.	3 "	45	.....	.....
"	10	"	51087	A. Goyette, 124 Mount Royal Ave., Montreal.	3 "	45	.....	.....

DISTRICT OF OTTAWA—

1912.								
Dec. 27	Linseed Oil.	51677	Hull Medical Hall, Hull, P.Q.	24 oz.	40	.....	Imperial Oil Co., Ottawa.	.....
" 30	"	51678	D. J. Stalker, Ottawa.....	3 lbs	75	Imperial Oil Co., Ottawa.	Mfrs.	.....
" 31	"	51679	Mulhall Hardware Co., Ottawa wa.	24 oz..	16	Dom. Linseed Oil Co., Montreal.	"	.....
" 27	"	51680	Adam Scott, Almonte.....	1 qt.	25	Sherwin Williams Co. Montreal.	.....	.....
" 30	"	51681	Cuzner Hardware Co., Ltd., Ottawa.	1 "	25	Standard Linseed Oil Co., Cleveland, U.S.	.....	.....
" 31	"	51682	Mulhall Hardware Co., Ottawa wa.	24 oz..	16	Dom. Linseed Oil Co., Montreal.	.....	.....

LINSEED OIL.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis.						Remarks and Opinion of the Chief Analyst.
	Sp. Gr. of Sample at 15.5°c.	Sep. Signification Number.	Mannine.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70°c.	

J. J. COSTIGAN, ACTING INSPECTOR.

Boiled	0.934	195.0	106 Linseed .....	.....	30 hours....	51166	
.....	0.932	176.4	108 Mineral and other oils.	8.10.24	" "	51167	Adulterated.
.....	0.934	197.2	106 Linseed .....	.....	30 " "	51168	
.....	0.934	196.0	116 " .....	.....	36 " "	51169	
.....	0.937	194.6	122 " .....	.....	48 " "	51170	
.....	0.933	194.3	114 " .....	.....	36 " "	51171	

J. J. COSTIGAN, INSPECTOR.

Raw	0.935	196.5	116 Linseed .....	.....	36 hours....	51082	
.....	0.935	193.2	110 " .....	.....	48 " "	51083	
Boiled	0.909	150.0	94 Mineral .....	.....	24 " "	51084	Adulterated.
.....	0.934	191.5	122 Linseed .....	.....	36 " "	51085	
.....	0.936	185.0	96 Indication of Foreign Oils	5.40.24	" "	51086	Doubtful.
.....	0.936	196.2	112 Linseed .....	.....	48 " "	51087	

J. A. RICKEY, INSPECTOR.

Raw.....	0.934	194.3	112 Linseed .....	.....	40 hours....	51677	
.....	0.935	194.8	120 " .....	.....	36 " "	51678	
.....	0.933	190.0	116 " .....	.....	36 " "	51679	
Boiled.....	0.938	189.3	103 " .....	.....	1.79.24	51680	
.....	0.941	162.0	99 Mineral	15.30.24	" "	51681	Adulterated.
.....	Broken.						51682

BULLETIN No. 266--

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.	
					Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1912.								
Dec. 16	Linseed Oil.	53036	W. A. Mitchell, Kingston	3 pts.	45			Dalton & Son, Kingston.
" 16	"	53037	A. Chown & Co., Kingston	3 "	23	Livingston, Mon- treal.		
" 16	"	53038	J. B. Bunt & Co., Kingston	3 "	45	Southern States Turpentine Co., Cleveland.		
" 16	"	53039	W. A. Mitchell, Kingston	3 "	45			Dalton & Son, Kingston.
" 16	"	53040	A. Chown & Co., Kingston	3 "	24	Shering, Mon- treal.		
" 16	"	53641	J. B. Bunt & Co., Kingston	3 "	45	Livingston, Mon- treal.		

DISTRICT OF TORONTO—

Dec. 19	Linseed Oil.	49496	P. H. Finkle, 1520 Queen St. west, Toronto.	3 pts.	40			Sanderson Percy Co., Ltd., To- ronto.
" 27	Oil.....	49497	Howard Furnace Hardware Co., 371 Yonge St., Toronto.	1 qt.	35			Reynolds Bros., Toronto.
" 27	"	49498	Geo. Pearsall & Son, 417 1/2 Yonge St., Toronto.	1 "	35			The Sherwin- Williams Co., Toronto.
" 24	"	51581	Geo. Matthewson, 734 Queen 1 St. east, Toronto.	1 "	25			Turpentine Pro- ducing Agency, Toronto.
" 26	"	51582	May Bros., 1680 Dundas St. 1 1/2 pt. 1680 Dundas St. west, To- ronto.	1 1/2 pt.	45			"
" 27	"	51583	T. W. Brown, 242 Carleton 1 qt.	1 qt.	50			"

DISTRICT OF VICTORIA—

1913.								
Jan. 21	Linseed Oil.	53513	E. B. Marion & Co., 1202 3 pts Wharf St., Victoria, B.C.	3 pts		Sherwin-Wil- liams, Mon- treal.		
" 21	"	53514	P. McQuade & Son, 1214 3 "	65	J. T. Donald & Co., Glasgow.			
" 21	"	53515	B.C. Hardware Co., Ltd., 825 3 "	40			B. A. Paint Co., Victoria, B.C.	
" 21	"	53516	E. B. Marvin & Co., 1202 3 "		Sherwin-Wil- liams, Mon- treal.			
" 21	"	53517	P. McQuade & Son, 1214 3 "	60	J. T. Donald & Co., Glasgow.			
" 21	"	53518	B.C. Hardware Co., Ltd., 825 3 "	35			B. A. Paint Co., Victoria, B.C.	

LINSEED OIL.

Results of Analysis.

Inspector's Report. (Is not an expression of Opinion).	Sp. Gr. of Sample at 15.5° C.	Saponification Number.	Maurine.	Spot Test.	Unsaponifiable Matter.	Time of Drying at 70° C.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

JAS. HOGAN, INSPECTOR.

Raw.....	0·934	197·1	112	Linseed	48 hours	53036	
".....	0·934	195·6	110	"	36 "	53037	
".....	0·932	159	106	Indication rosin oil.	19·50·48 "	.....	53038 Adulterated.
".....	0·934	189	118	Indicates adulteration.	8·34·20 "	.....	53039 "
".....	0·937	189·7	119	Linseed	2·66·15 "	.....	53040
".....	0·934	194	115	"	15 "	.....	53041

H. J. DAGER, INSPECTOR.

Raw.....	0·931	194·6	120	Linseed	48 hours	49496	
".....	0·925	149	91	Indication mineral oil.	36 "	49497	Doubtful.
".....	0·932	194·9	110	Linseed	48 "	49498	
Boiled.....	0·933	157·8	101	Mineral	24 "	51581	Doubtful.
".....	0·924	156	103	"	36 "	51582	Adulterated.
".....	0·930	147·7	90	"	24 "	51583	Doubtful.

D. O'SULLIVAN, INSPECTOR.

Raw.....	0·933	194	115	Linseed	36 hours	53513	
".....	0·931	194·3	129	"	48 "	53514	
".....	0·930	194·3	128	"	48 "	53515	
Boiled.....	0·933	189·9	124	"	24 "	53516	
".....	0·946	189·3	112	Indication mineral oil.	5·00·30 "	.....	53517 Doubtful.
".....	0·936	195·6	117	Mineral and other oils.	1·94·20 "	.....	53518 "

