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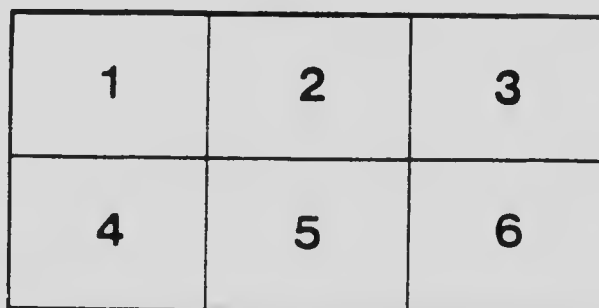
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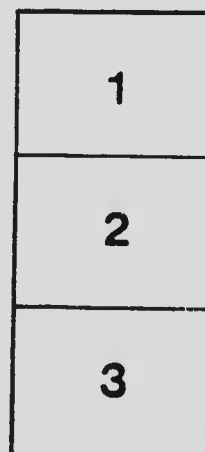
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

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BULLETIN No. 245

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VANILLA FLAVOURING EXTRACT

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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

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BULLETIN No. 245

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VANILLA FLAVOURING EXTRACT.

OTTAWA, Nov. 27, 1912.

WM. HIMSWORTH, Esq.,  
Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report covering eighty samples of Vanilla Flavouring Extract purchased throughout Canada in April and May of this year.

Standards for flavouring extracts have been published as Circular G. 1045, and came into effect November 25, 1912. These are as follows:—

1. A flavouring extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters; and conforms in name to the plant used in its preparation.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled, so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word artificial or imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word Compound or Mixture shall be used to describe it.

5. Lemon extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

6. Terpene lemon extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0.2) of one per cent of citral derived from oil of lemon.

7. Vanilla extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine and contains in 100 cubic centimetres the soluble matters

from not less than five (5) grams of the vanilla bean (the dried cured fruit of *Vanilla planifolia*.)

Vanilla extract has been the subject of extended work by these laboratories on three (3) occasions, and the conclusions reached are stated in Bulletin No. 201 as follows:—

1. Extracts containing coumarin should be required to announce the fact either by explicit statement, or by being sold as compound or mixtures.

2. The use of alcohol is necessary in preparing an extract of vanilla, not so much to dissolve the vanillin, which is rendered more soluble by the presence of sugar, as in order to get the characteristic resins into solution. For this reason an extract cannot meet the requirements of a true vanilla bean extract unless it contains from 30 to 40 per cent of alcohol.

3. Samples containing totally more than 0.2 per cent of vanillin are presumably made not from the vanilla bean, but at least in part, from synthetic vanillin.

4. The standards above referred to will be defined with greater exactitude when our experience has furnished us with additional data such as to enable us to fix numerical limits for resins, vanillin, and other essential constituents. In the meantime it must suffice to classify on the basis of already acquired knowledge. In this regard, it must be concluded that an extract made with alcohol decidedly less than 30 per cent strength (volume) is deficient in the resinous matters of vanilla bean.

Where vanillin is decidedly above 0.200 per cent, the extract is to be regarded as artificial, as containing synthetic vanillin.

Where coumarin is present, as well as vanillin, the extract should be sold as a mixture or compound.

The following synopsis in which classifications is based upon the above considerations is interesting:—

Year.	Bulletin.	Total samples.	Genuine.	Mixtures.	Artificial.	Percentage genuine.
1903	89	21	0	20	1	0
1910	91	77	7	37	33	9
1912	95	80	13	40	27	16

Of those classified as genuine, 2 samples of the collection of 1912 contained decidedly less than 30 per cent alcohol, and these should probably be designated as *doubtful* rather than as genuine.

It is satisfactory to note that the percentage of genuine samples found on the Canadian market is decidedly on the increase; and it is hoped that, on our next inspection, we shall find still more notable increase. Perhaps the most important advantage to be looked for, as a result of having legal standards for the article, is the correct labelling of vanilla extract. After this date, it will be possible to declare adulteration in the case of extracts which are offered under the name of Vanilla Extract, which being in reality prepared from synthetic vanillin, in whole or in part, or containing coumarin. Such extracts are not forbidden, and for many purposes they may be regarded as satisfactory; but it will be necessary that they should be correctly labelled, and thus be offered for what they really are.

I beg to recommend the publication of this report as Bulletin No. 245.

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

A. MCGILL,  
Chief Analyst.

BULLETIN No. 245—VANILLA EXTRACT.

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
			Name and Address	City		Per 100cc.	Per 100cc.	Manufacturer	Furnisher	Vanillin Per 100cc.		Coumarin Per 100cc.	Alcohol by Volume		

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1912.																
April 26	Vanilla Extract	47063	Morrison & Williams, N.S.	Halifax	3 oz.	18		Imperial Extract Co., Toronto			Sharriffs Mill	0.152	0.027	37.00	47063	Contains coumarin. Mixture.
" 26	"	47062	Dixon, N.S.	Halifax	30 "	30		"			Baird Bros., Ltd.	0.121	0.045	22.10	47062	"
" 26	"	47063	Sharriff & Campbell, N.S.	Halifax	30 "	30		Gorman Eckert Co., London, Ont.			Manufacturers	0.143	0.050	21.35	47063	"
May 18	"	47111	Nat. Drug & Chem. Co., Halifax, N.S.		30 "	22		Vendors			"Sovereign" brand	0.282	0.051	Sample small	47111	Vanillin high. Artificial.
" 22	"	47112	R. B. Seaton & Co., Halifax, N.S.		30 "	23		F. F. Dalley Co., Hamilton, Ont.			Manufacturers	0.104	None	39.85	47112	No coumarin. Genuine.

DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.

May 21	Vanilla Extract	46191	Stewart & Son, Charlottetown		7 1/2 oz.	75		The Imperial Extract Co., Toronto				0.221	0.065	34.96	46191	Vanillin high. Contains coumarin. Artificial.
" 21	"	46192	Beer & Goff, Charlottetown		7 1/2 "	75		Pure Gold Mfg. Co., Toronto				0.082	None	33.90	46192	No coumarin. Genuine.
" 21	"	46193	R. T. Madigan & Co., Charlottetown		30 "	30		The Nat. Drug & Chem. Co., Ltd., Halifax				0.055	0.265	32.00	46193	Chiefly coumarin. Mixture.
" 21	"	46194	J. O. H. McKenna, Charlottetown		30 "	30		White-Swan Spices & Cereals, Ltd., Toronto				0.489	0.025	17.58	46194	Vanillin very high; contains coumarin. Artificial.
" 21	"	46195	J. P. Duffy, Charlottetown		30 "	30		White-Swan Mills, Toronto				1.050	0.170	15.70	46195	"



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

April 15	Vanilla tract.	45645	The Nat. Drug & Chem. Co., St. John, N.B.	30	Vendors.....	"Star" brand.....	0 086	0 023	Sam-ple too small.	45645	Contains coumarin. Mixture.
"	"	45646	Dearborn & Co., St. John, N.B.	30	"	Dearborns.....	0 217	None.	45646	No coumarin. Vanilla high Gen-tine.	
"	"	45647	Geo. E. Barbour & Co., Ltd., St. John, N.B.	30	"	Acorn.....	0 191	0 051	25 80	45647	Vanillin very high; contains coumarin. Artificial.
May 3	"	45648	The Baird Co., Ltd., Woodstock, N.B.	30	"	"	0 095	None	Sam-ple too small.	45648	No coumarin. Gen-tine.
"	"	45649	The Sussex Mercantile Co., Ltd., Sussex, N.B.	60	"	"	0 125	None	61 10	45649	"

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

April 24	Vanilla tract.	37428	W. E. Hayfield, 60 rue Ste. Marguerite, Quebec.	60	Henri Joncas Co., Montreal.	W. Brunet & Cie.....	0 264	None.	29 30	37428	No coumarin. Vanilla high. Gen-tine.
"	"	37424	Phillippe, Boulet & Desjardins, rue Grant et Desjardins, Quebec.	30	Croix Rouges, Quebec.	Manufacturer.....	0 394	0 101	13 10	37424	Vanillin very high. Artificial.
"	"	37425	Charles Boily, rue St. Valer.	30	Unknown.....	Barbaw & Godbout.....	0 290	0 082	9 12	37425	Vanillin high. Artificial.
"	"	37426	L. F. Martel, rue da Pont.	45	Lemister, Toronto.	Manufacturer.....	0 086	0 063	24 62	37426	Contains coumarin. Mixture.
"	"	37427	"	30	"	"	0 052	0 105	9 05	37427	"

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

April 15	Vanilla tract.	38981	P. Laroche, 3 rue Faruham.	54	Henri Joncas & Cie, Montreal.	"	0 2	none.	32 75	38981	No coumarin. Vanilla high. Contains synthetic vanillin. Artificial.
"	"	38982	Monty Freres, Grubby.	60	The F. F. Dalby Co., Ltd., Hamilton.	"	0 121	0 046	29 30	38982	Contains coumarin. Mixture.
"	"	38983	H. J. Elliott, Durham, P.Q.	75	White Swan Spices & Cereals, Ltd., Toronto.	"	0 368	0 065	35 05	38983	Vanillin very high. Artificial.

BULLETIN No. 245—VANILLA EXTRACT.

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.	Manufacturer.	Furnisher.		Vanillin per 100cc.	Formicarin per 100cc.		

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR—Continued.

1912.												
May	2 Vanilla Extract.	38984	J. A. Fougault, 423 bds. Leonard St.	30		Henri-Jonas & Cie., Montreal.			0.265	none	31 29	38984 No. coumarin. Vanillin high. Contains synthetic vanillin.
"	6 "	38985	L. Gendreau, 30 Hyacinthe.	30		J. V. Boadras, Montreal.			0.394	0.069	12 90	38985 Vanillin high. Artificial.

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

April 15	Vanilla Extract.	38990	J. A. Turgeon, 423 bds. Victoria St. Montreal.	30					0.056	none	15 00	38990 No. coumarin. Genuine; but alcohol too low.
"	15 "	38991	L. A. Panze, 140 3/4 Villepeuve St. W., Montreal.	45		Henri-Jonas & Co., Montreal.			0.273	"	33 05	38991 No. coumarin. Vanillin high. Contains synthetic vanillin.
"	15 "	38992	Amex Provision Co., 120 Clark St., Montreal.	30				Thistle (our own)	0.013	0.066	13 60	38992 Contains coumarin. Mixture.
"	15 "	38993	" " "	3	75			Shirriff's	0.241	0.055	38 78	38993 Vanillin high. Contains coumarin. Artificial.
"	15 "	38994	D. Ashkanase, 21 3/4 Marie Anne St. E., Montreal.	30				Princess	0.078	0.078	13 95	38994 Contains coumarin. Mixture.

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

April 23	Vanilla tract.	51601	F. A. Scott & Son, Wellington st., Ottawa.	75	Shirriffs, Toronto.	H. N. Bate & Labelled Saus, Ottawa.	Shirriffs Imperial Quantities superior true vanilla	0.217	0.016	38.78	51601	Vanillin high. Contains coumarin. Mixture.
"	"	51602	R. Clark Cummings Bridge, Ottawa.	30	Integrity Mills, Toronto.	Lester Pure Food Co., Toronto.		0.035	0.106	8.98	51602	Contains coumarin. Mixture.
"	"	51603	G. J. Young, Ottawa.	75	L. Crossman, Ottawa.			0.119	0.060	9.90	51603	Vanillin very high. Artificial.
"	"	51604	W. F. Garland, Ottawa.	45	Nat. Drug & Chem. Co., Ottawa.			0.391	0.117	12.55	51604	Vanillin very high. Artificial.
"	"	51605	Hull Medical Hall, Hull, P. Q.	30	Unknown	Farley, Hull.		1.588	0.262	22.10	51605	Vanillin very high. Artificial.

DISTRICT OF KINGSTON—JAS. HOLLAN, INSPECTOR.

April 15	Vanilla tract.	49560	Albert Powers, Picton.	25	I. E. Co., Toronto.			0.160	0.028	14.65	49560	Contains coumarin. Mixture.
"	"	49561	Hiscoy & Son, Picton.	25	"			0.737	0.055	20.25	49561	Contains coumarin. Mixture.
"	"	49562	John Curtis, Hope.	60	Pure Gold Co., Toronto.			0.074	none	28.90	49562	No coumarin. Genuine.
"	"	49563	J. R. Bell, Hope.	30	Vendor			0.152	0.069	20.94	49563	Contains coumarin. Mixture.
"	"	49564	Dutton Co., Picton.	30	Tollminter & Mitchell, Toronto.			0.191	0.064	19.20	49564	Contains coumarin. Mixture.

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

April 18	Vanilla tract.	49387	The Elms Cash gro. Co., Queen St. W., Toronto.	23	Imperial Extract Co., Toronto.	Maple Leaf		0.018	0.121	12.96	49387	Contains coumarin. Mixture.
"	"	49389	W. G. Wade, Queen St. E., Toronto.	26	J. M. Lowes Co., Ltd., Toronto.	Our own manufacturing for vendors.		0.234	0.161	46.38	49389	Vanillin high. Artificial.
"	"	49390	Robert Ross, Queen St. East, Toronto.	30	Unknown	Integrity Brand strength.		0.039	0.106	8.10	49390	Contains coumarin. Mixture.
May 1	"	49391	Carnall's Cash gro. Co., St. N., Hamilton.	15	F. F. Dalley Co., Hamilton.	Double Star.		0.095	0.191	15.84	49391	"
"	"	49399	E. R. Horing, John St. North, Hamilton.	24	"	Topical Flav. Flav.		0.126	0.087	13.66	49399	"

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	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.	
			Name and Address of Vendor.	Name and Address of Vendor.		Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.			Alcohol by Volume.
1912.													
May	Vanilla Extract.	48257	W. R. Batchler, St. Mary's.	30	30	Hamilton Coffee & Spice Co., Hamilton.			0.048	0.055	19.15	48257	Contains coumarin. Mixture.
"	"	48259	F. W. Hutton, St. Mary's.	30	30	F. F. Dalley & Co., Hamilton.			0.104	None.	27.90	48259	No coumarin. Ge. name.
"	"	48265	Stuebing & Son, Berlin.	30	30	Gorman Eckert Co., London.		Golden Gem. Pure Extract.	0.046	0.046	21.82	48265	Contains coumarin. Mixture.
"	"	48267	Schell Bros., Berlin.	30	75	Henri Jonas, Montreal.		Royal Quintessen-ec. Pure Vanilla	0.273	None.	32.10	48267	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
"	"	48269	Danke & Co., Berlin.	30	30	Hamilton Chemical Works, Hamilton.		Prime Extract.	0.143	0.041	25.90	48269	Contains coumarin. Mixture.

DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.		Quantity.	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.	
			Name and Address of Vendor.	Name and Address of Vendor.		Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.			Alcohol by Volume.
May	Vanilla Extract.	48237	F. Melbongall, Wexford.	30	30	I. E. Co., Toronto.			0.108	0.060	15.00	48237	Contains coumarin. Mixture.
"	"	48240	C. A. O'Neil, Wexford.	30	30	Gorman Eckert Co., London, O.		Oriental flav. Ext.	0.108	0.055	20.42	48240	"
"	"	48246	Pool & Co., Wexford.	30	75	Shirriff's, Montreal.		Shirriff's Imperial.	0.230	0.032	38.16	48246	Vanillin high. Artificial.
"	"	48247	Fred Millman, Wexford.	30	30	Gorman Eckert Co., London, O.		Rose brand.	0.056	0.009	22.70	48247	Contains coumarin. Mixture.
"	"	48248	Jos. Parker, Wexford.	30	30	Canada Spices Co., London, Ont.		Victoria Brand.	0.049	0.087	20.76	48248	"

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

DISTRICT OF MANITOBA A. C. LARIVIERE—INSPECTOR.

April 16	Vanilla Ex-tract.	48636 St. James Cash grocery, St. James.	3	75	The Dyson Co., Winnipeg.	Manufacturers.	Red Cross.	1.020	0.064	32.66	48636	Vanillin very high. Artificial.
"	16	48637 Duncan & Hunter, St. James.	3	45	"	"	Royal.	0.988	0.101	28.54	48637	"
"	17	48638 W. A. Bartram, Portage Ave., Winnipeg.	3	25	North Star Mfg. Co., Winnipeg.	Unknown	Sterling.	0.260	0.055	19.15	48638	Vanillin high. Artificial.
"	17	48639 J. Paterson, Portage Ave., Winn.	3	25	Vendor	"	Jewel, put up for vendor.	0.061	0.060	20.06	48639	Contains coumarin. Mixture.
"	18	48640 R. McCullouch, Portage Ave., Winnipeg.	3	30	Unknown	"	"	0.022	0.133	19.40	48640	"

32132-12

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

April 7	Vanilla Ex-tract.	44155 Campbell, Wilson & Horne, Lethbridge.	3	60	Campbell Bros. & Wilson, Winnipeg.	"	"	0.052	0.101	21.64	44155	Contains coumarin. Mixture.
"	7	44156 " " "	3	50	Gorman & Eckert Co., London, Ont.	"	"	0.291	0.060	24.65	44156	Vanillin high artificial.
"	7	44157 H. A. McKillop, Co., Lethbridge.	3	75	Gold Standard Mfg. Co., Winnipeg.	"	"	0.195	None.	33.60	44157	No coumarin. Genuine.
"	7	44158 A. MacDonald, Lethbridge.	3	75	White Star Mfg. Co., Winnipeg.	"	"	0.069	0.110	29.68	44158	Contains coumarin. Mixture.
"	7	44159 Hudson Bay Co., Lethbridge.	3	60	"	"	Put up for Hudson Bay Co.	0.282	None.	30.85	44159	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.

DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.

April 18	Vanilla Ex-tract.	49644 W. H. Smith, Vernon, B.C.	3	60	Kelly, Douglas & Co., Vancouver.	"	"	0.308	0.101	18.90	49644	Vanillin high. Artificial.
"	18	49645 " " "	3	60	W. H. Malkin, Vancouver.	"	"	0.213	0.057	37.95	49645	Vanillin high. Mixture.
"	18	49646 " " "	3	60	Pure Gold Mfg. Co., Toronto.	"	"	0.078	None.	38.78	49646	No coumarin. Genuine.
"	18	49650 W. R. Megaw, Vernon, B.C.	3	60	Empress Mfg. Co., Vancouver.	"	"	0.139	0.088	25.36	49650	Contains coumarin. Mixture.
"	18	49651 " " "	3	75	Climax Est. Co., Vancouver.	"	"	0.123	0.083	23.04	49651	"

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor		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	Address	Name	Address		Vanillin per 100cc	Coumarin per 100cc	Alcohol by Volume		No. of Sample
DISTRICT OF VANCOUVER J. F. POWER, INSPECTOR.												
1912	Vanilla	38321	H. A. Edgett,	3 bota,	75 Gorman, Eckert & Co.,	Winnipeg,	Gorman's Pure Flavour Extract.	0.065	0.046	21.82	38321	Contains coumarin.
"	"	38322	Woodward,	Dept. 3	75 Royal Extract Co.,	Vancouver.	Vanilla Extract	0.065	0.046	17.10	38322	"
"	"	38323	McLaggart's	Gro-3	75 Empress Mfg. Co.,	Vancouver.	"	0.091	0.037	27.04	38323	"
"	"	38324	McDowell's	Gro-3	195 White Star Mfg. Co.,	Ltd., Winnipeg.	Pure Fruit Flavour	0.061	0.110	35.60	38324	"
"	"	38325	Arnour,	MacFarlane,	120 Pure Gold Mfg. Co.,	Toronto.	Vanilla Flav. Ext.	0.065	None	33.60	38325	No coumarin. Genuine.

DISTRICT OF VICTORIA D. O'SULLIVAN, INSPECTOR.

April 23	Vanilla extract.	49135	Windsor Grocery Co.,	Victoria.	75 Sheriff's Mfg. Co.,	Toronto.	Shirriff's Imported quint essence true Vanilla.	0.204	0.046	39.60	49135	Vanillin high, containing coumarin mixture.
"	"	49136	The West End Grocery Co.,	Victoria.	75 Pure Gold Mfg. Co.,	Toronto.	Pure Gold Vanilla Extract.	0.061	None	33.90	49136	No coumarin. Genuine.
"	"	49137	Harrison & Mc-	Donald, Victoria.	75 Empress Mfg. Co.,	Vancouver.	"Empress Brand"	0.148	0.068	29.12	49137	Contains coumarin. Mixture.
"	"	49138	Divi H. Ross & Co.,	Victoria.	75 Imperial Ext. Co.,	Toronto.	"Dist" Brand	0.321	0.074	17.75	49138	Vanillin high. Artificial.
"	"	49139	E. G. Bailey,	Victoria.	60 W. A. Jamieson Coffee Co.,	Victoria.	Victoria Brand Vanilla Flavour.	0.490	0.138	34.34	49139	Vanillin very high. Artificial.

