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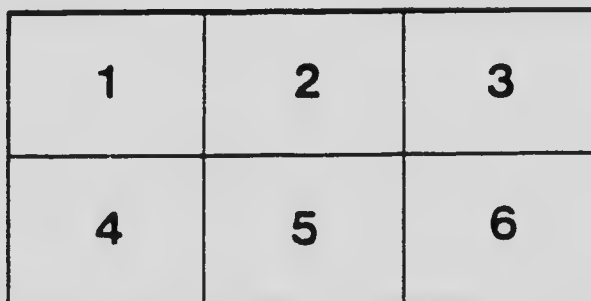
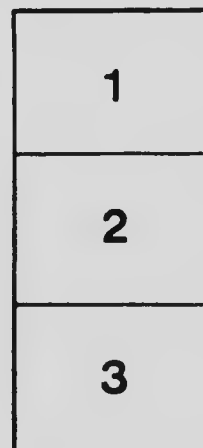
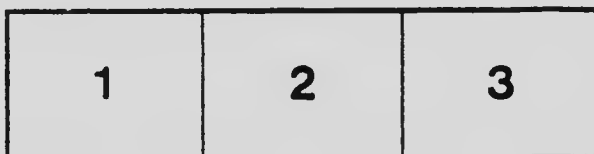
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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

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BULLETIN No. 225

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BLACK ANTIMONY.

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LABORATORY  
OF THE  
INLAND REVENUE DEPARTMENT  
OTTAWA, CANADA

BULLETIN No. 225

BLACK ANTIMONY.

OTTAWA, July 18, 1911.

W. J. GERALD, Esq.,  
Deputy Minister of Inland Revenue.

SIR,—Some time ago representations were made to this Department to the effect that the drug known as Black Antimony was grossly adulterated. In consequence of this, a collection of 77 samples was made during March, April and May of this year and the following report gives the results of their examination; and it will be seen that the charges of gross adulteration are fully sustained. The following synopsis gives these results in brief:—

	Samples.
Adulterated, as containing no antimony . . . . .	21
Very impure sulphide of antimony . . . . .	9
Impure sulphide of antimony . . . . .	8
Sulphide of antimony . . . . .	39
	77

Black Antimony is not defined by the British Pharmacopoeia; but the purified sulphide is defined as *Antimonium Nigrum Purificatum*. This is the crude sulphide separated from siliceous material and from arsenical compounds.

Neither is Black Antimony found in the United States Pharmacopoeia, since 1890. In the seventh decennial revision of the U.S.P. it is thus described:—

“Native Antimony Sulphide, purified by fusion, and as free from arsenic as possible.”

Under the designated tests it is required to dissolve in hydrochloric acid, without leaving more than one (1) per cent of residuum. The United States National Dispensary, 5th Edition, p. 223, describes it as dissolving in 10 parts of hydrochloric acid without leaving more than 1 per cent of residuum.

*Finlay Dun* (Veterinary Medicines, 9th Edition, p. 246), says:—“The sulphide or stibnite, the most abundant ore of antimony, when purified by fusion, occurs in dark-grey, metallic, heavy brittle cakes, or as a heavy grey black, crystalline powder devoid of odour and taste, insoluble in water, and known as black, or crude antimony.”

Black antimony is not now employed in human medicine, but is very largely used as an alterative and anthelmintic for horses and cattle; and is a constituent ingredient of very many condition powders.

From what I have said, it is apparent that no exact standard of purity exists for this article. It is, however, quite certain that it should be essentially the sulphide of antimony, known as stibnite; and I have no hesitation in describing the samples examined as adulterated when they contain no antimony whatever. This is the case with 21 samples, or 27 per cent of the entire collection. Where foreign matter to the extent of nearly 50 per cent is present, I have declared the samples to be *very impure*; and where more than 5 per cent of matters insoluble in hydrochloric acid is found, as *impure*.

It is quite evident that many of the adulterated samples, consisting as they do of metallic iron, silica and carbon (graphite) have had an origin such as to preclude the possibility of any honestly mistaken intent; and are entirely and knowingly frauds, not necessarily known as such to the immediate vendor, but certainly known to the original producer.

I beg to recommend publication of this report as Bulletin No. 255.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,  
*Chief Analyst.*

, 1911.

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fine powder,  
antimony."

BULLETIN No. 22 - BLACK ANTIMONY.

Date of Collection.	Nature 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.		Residue insoluble in HCl.	Antimony.		

DISTRICT OF NOVA SCOTIA - R. J. WAUGH - INSPECTOR.

1911.	Apr. 18	Black Antimony.	42271	G. C. McDougall, 1½ lb.	30	Unknown.			1.00	42271	Essentially sulphide of antimony.
	" 20	"	42272	L. C. Gardener, 1½	25	"	N. D. & C. Co., Halifax, N.S.		1.35	42272	"
	" 24	"	42273	Nat. Drug & Chem. Co., Halifax, N.S.	25	"	N. D. & C. Co., Montreal.		2.05	42273	"
	" 24	"	42274	Brown Bros. & Co., Halifax, N.S.	30	"	"		1.95	42274	"
	" 25	"	42275	A. A. Thompson, 1½ Halifax, N.S.	37	"	N. D. & C. Co., Halifax.		1.30	42275	"

DISTRICT OF PRINCE EDWARD ISLAND - THEO. MOORE - INSPECTOR.

Apr.	6	Black Antimony.	46051	J. G. Janieson, 1½ lb. Charlottetown.	45		Lymen & Sons, Montreal.		1.40	46051	Essentially sulphide of antimony.
	" 7	"	46052	McKinnon Drug Co., Charlottetown.	45		Lymen & Sons, Montreal.		1.45	46052	"
	" 11	"	46053	J. C. Ferguson, 1½ Souris.	45		Nat. Drug Co., Halifax.		6.00	46053	Impure sulphide of antimony.
	" 24	"	46054	Keir & McFadyen, 1½ Kennington.	40		Nat. Drug & Chem. Co. St. John, N.B.		21.00	46054	Highly impure sulphide of antimony.
	" 25	"	46055	A. W. P. Gourlie, 1½ Summerside.	45		Nat. Drug Co., Halifax.		52.30	46055	Adulterated.





BULLETIN No. 225—BLACK ANTIMONY.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	CART.		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.	Cents.	Manufacturer.	Furnisher.		Residue insoluble in HCl.	Antimony.	

DISTRICT OF MONTRÉAL—J. J. COSTIGAN—INSPECTOR.

1911.	April 6	Black Antimony..	40641 J. E. H. Quipp, 14 lb. 95 Windsor St., Montreal.	50	Unknown	Unknown			6.70	40641	Impure sulphide of antimony.
"	6	"	40642 Joseph Contant, 1 1/2 221 Notre Dame East, Montreal.	15	"	"			39.05	40642	Highly impure sulphide of antimony.
"	8	"	40643 St. Catherine Pharmacy, 20 St. Catherine St. W., Montreal.	25	"	"			1.85	40643	Essentially sulphide of antimony.
"	20	"	40644 H. E. Archambault, 78 Notre Dame E., Montreal.	30		Lynards, Ltd., Montreal.			1.25	40644	"
"	20	"	40645 Nat. Drug & Chem. Co., Ltd., Montreal.	23					1.30	40645	"

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

Mar. 31	Black Antimony..	43241 D. J. Stalker, 1 1/2 lb. Druggist, Ottawa	75	Unknown	Nat. Drug & Chem. Co., Ottawa.				0.90	43241	Essentially sulphide of antimony.
"	31	"	43242 T. Payment, Drug- gist Ottawa.	75	"	Ottawa Drug Co., Ottawa.			7.55	43242	Impure sulphide of antimony.
"	31	"	43243 Beattie & Argue, Druggists, Ottawa.	75	"	Nat. Drug & Chem. Co., Ottawa.			94.20	43243	None. Adulterated.

31	"	43242	T. Payment, Ottawa	75	"	Ottawa Drug Co., Ottawa	7.5%	43242	Impure sulphide of antimony.
31	"	43243	Beattie & Argue, Ottawa	75	"	Nat. Drug & Chem. Co., Ottawa	94.20%	43243	Adulterated.

April 1	"	43244	N. W. Campbell, 14 Druggist, Ottawa	75	"	Ottawa Drug Co., Ottawa	3.16%	43244	Essentially sulphide of antimony.
"	3	43245	Wm. Johnson, 14 Druggist, Smith's Falls	75	"	Lymans, Ltd., Montreal	0.85%	43244	"
"	3	43246	L. A. Wilson, 14 Druggist	75	"	Unknown	33.90%	43245	Very impure sulphide of antimony.

DISTRICT OF KINGSTON—JAS. HOGAN—INSPECTOR

Mar. 24	Black Antimony	47786	F. Hoeg, Kingston	4 lb.	20	N. C. Polson, Kingston	52.35%	47786	Adulterated.
"	"	47787	J. S. McKeeown, Belleville	14	40	Nat. Drug Co., Unknown	57.75%	47787	Highly impure sulphide of antimony.
"	"	47788	D. M. Waters, Belleville	14	40	Lyman Bros., Toronto	0.70%	47788	Essentially sulphide of antimony.
"	"	47789	McDermid & Johnson, Peterboro.	14	60	Nat. Drug Co., Toronto	4.30%	47789	"
"	"	47790	Warne Drug Co., Peterboro.	14	60	"	96.80%	47790	Adulterated.

DISTRICT OF TORONTO—H. J. DAGER—INSPECTOR

April 3	Black Antimony	47292	Wm. Crossland, 14 Barric, Toronto	14 lb.	75	Drug Trading Co., Ltd., Toronto	1.20%	47292	Essentially sulphide of antimony.
"	3	47293	W. C. Orillia	14	60	The Nat. Drug & Chem. Co., Ltd., Toronto	46.85%	47293	Very impure sulphide of antimony.
"	4	47294	J. S. Fraleigh, Midland	14	35	Unknown	60.45%	47294	"
"	5	47295	C. A. Nettleton, Penetang	14	35	"	53.45%	47295	Adulterated.
"	7	47296	W. J. Weston, Weston	14	40	Lyman Bros. Co., Ltd., Toronto	3.55%	47296	Essentially sulphide of antimony.

DISTRICT OF LONDON—JNO. TALEBOT—ACTING INSPECTOR

April 26	Black Antimony	48010	E. O. Ritz, Berlin, Ont	4 lb.	25	Unknown	6.45%	48010	Essentially sulphide of antimony.
"	26	48014	Cher' Poon, Berlin	4	15	"	12.56%	48014	Impure sulphide of antimony.
"	26	48016	J. Bond, Berlin, Ont	4	10	"	6.46%	48016	"
"	26	48021	Fred. C. Galt, Galt	4	25	"	9.76%	48021	"
"	26	48025	W. M. Kirk, Galt	4	20	Nat. Drug Co., Hamilton	23.70%	48025	Adulterated.

BULLETIN No. 225—BLACK ANTIMONY.

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.	Cents.	Manufacturer.	Furnisher.		Residue insoluble in HCl.	Antimony.	

DISTRICT OF WINDSOR—JNO. TALBOT—INSPECTOR.

1911.	April 19	Black Antimony	48360	W. H. Stepler, Strathroy.	$\frac{1}{2}$ lb.	20	Unknown	Unknown	.....	p.c.	48360	Adulterated.
"	"	"	48367	S. Tapscott & Co., Brantford.	$\frac{1}{2}$ "	15	"	"	.....	42.25	48367	Essentially sulphide of antimony.
"	"	"	48372	A. W. Smiley, Brantford.	$\frac{1}{2}$ "	15	"	"	.....	1.25	48372	"
"	"	"	48377	R. M. Thurtell, Ingersoll.	$\frac{1}{2}$ "	15	"	"	.....	0.90	48377	"
"	"	"	48382	G. A. Tomson, Ingersoll.	$\frac{1}{2}$ "	15	.....	Nat. Drug Co.,	.....	1.60	48382	"
										1.45		"

DISTRICT OF MANITOBA—A. C. LARIVIERE—INSPECTOR.

May	4	Black Antimony	435593	Brooking's Drug Store, Winnipeg	1 lb.	40	Unknown	Unknown	.....	p.c.	435593	Adulterated.
"	"	"	435594	W. F. C. Brathwaite, Winnipeg	$1\frac{1}{2}$ "	30	"	"	.....	26.00	43594	Essentially sulphide of antimony.
"	"	"	435595	The Nat. Drug & Chem. Co., Winnipeg.	$1\frac{1}{2}$ "	20	"	Nat. Drug & Chem. Co., Montreal.	.....	0.85	43595	"
"	"	"	435596	Andrew's Drug Store, Winnipeg	$1\frac{1}{2}$ "	60	"	Unknown	.....	1.50	43596	Very impure sulphide of antimony.
"	"	"	435597	Brown's Drug Store, Winnipeg	$1\frac{1}{2}$ "	25	"	Martin Bole & Commercial Wynne Co., Winnipeg.	.....	65.85	43597	Adulterated.
										*62.50		"

"	5	"	43597	Stores, Winnipeg Brown's Drug 1½ Store, Winnipeg	"	25	"	Martin Bole & Wynne Co., Winnipeg.	*62-50	None.	43597	Adulterated.
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DISTRICT OF CALGARY—R. W. FLETCHER—INSPECTOR.

May	4	Black Antimony.	43842 T. G. Caisson, Edmonton.	Ed. 1½ lb	40	Martin Bole & Wynne, Winnipeg.	.....	46-50	None.	43842	Adulterated.
"	"	"	43843 A. Archibald, Edmonton.	Ed. 1½ "	40	Lymans Ltd., Montreal.	.....	1-25	.....	43843	Essentially sulphide of antimony.
"	4	"	43844 G. H. Graydon, Edmonton.	1½ "	40	Lymans Ltd., Montreal.	.....	47-30	.....	43844	Highly impure sulphide of antimony.
"	4	"	43845 J. H. Lives, Edmonton.	Ed. 1½ "	40	Nat. Drug & Chem. Co., Calgary.	.....	1-05	.....	43845	Essentially sulphide of antimony.
"	4	"	43846 Edmonton Drug Co., Edmonton.	Drug 1½ "	40	Lymans Ltd., Montreal.	.....	1-05	.....	43846	"

DISTRICT OF NELSON—THOS. PARKER—INSPECTOR.

May	3	Black Antimony.	48420 Poole Drug Co., Nelson, B.C.	1½ lb	60	Lymans Ltd., Montreal.	.....	38-65	.....	48420	Impure sulphide of antimony.
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DISTRICT OF VANCOUVER—J. F. POWER—INSPECTOR.

Apr.	22	Black Antimony.	38130 Nat. Drug Co., Vancouver.	125 1½ lb	50	Vendor	.....	5-70	.....	38130	Essentially sulphide of antimony.
"	22	"	38131 J. A. Teepoorten & Co., Vancouver.	1½ "	50	J. L. Hopkins, New York.	.....	2-70	.....	38131	"
"	24	"	38132 L. G. Henderson, Vancouver.	1½ "	75	Nat. Drug Co., Vancouver.	.....	14-50	.....	38132	Impure sulphide of antimony.
"	24	"	38133 Lair's Drug Store, Vancouver.	1½ "	50	Nat. Drug Co., Vancouver.	.....	0-95	.....	38133	Essentially sulphide of antimony.
"	24	"	38134 Burns & Cairns, Vancouver.	1½ "	75	J. A. Teepoorten, Vancouver.	.....	3-00	.....	38134	"

\* Contains iron (magnetic matter over 35 p.c.). Residue, siliceous matter.

BULLETIN No. 225—BLACK ANTIMONY.

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.	Cents.	Manufacturer.	Furnisher.		Positive in HCl.	Antimony.	

DISTRICT OF VICTORIA—D. O'SULLIVAN—INSPECTOR.

1911.	May 12	Black Antimony.	47585 F. J. Williams, 1 1/2 lb. Victoria, B.C.	50		Nat. Drug & Chem. Co. Ltd., Victo ria, B.C.			4.05	47585	Essentially sulphide of antimony.
"	12	"	47586 Wm. Jackson & Co., Victoria, B.C.	50		Lyman Bros. & Co., Toronto.			2.15	47586	"
"	12	"	47587 Hall & Co., Victo-1 1/2 ria, B.C.	50		Nat. Drug & Chem. Co., Victoria.			5.25	47587	"
"	12	"	47588 Geo. A. Fraser, 1 1/2 Victoria, B.C.	50		Nat. Drug & Chem. Co., Victoria.			4.20	47588	"
"	13	"	47589 Nat. Drug & Chem. 1 1/2 Co., Victoria, B.C.	30		Nat. Drug & Chem. Co. Ltd., Mon- real.			1.80	47589	"

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