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Name of Author W. H. Tipton, M. J. Cook, R. L. Steiner, J. M. Foland, K. K. McDaniel, and S. D. Fentress

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M. Fair
E. E. Anderson

H P Yockey
H. P. Yockey

K. Z. Morgan
K. Z. Morgan

Edw. G. Struxness
Section Chief

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Human Studies Project

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CF-57-2-4

Spectrographic Analysis of Normal Human Tissue from Miami, Florida

I. H. Tipton*, M. J. Cook**, R. L. Steiner*, J. M. Foland*, K. K. McDaniel**, and S. D. Fentress*

All tissues included in this report were received from Miami, Florida and the majority are from Jackson Memorial Hospital. They were collected, ashed and analyzed according to the methods described in O. R.N.L.-C.F.-57-2-2.

The average value of the concentration for each element in a tissue is the average of the concentrations in only those samples of the tissue which contained the element. For example, if, of 25 livers analyzed, only 10 contained lead, the average value for lead in the liver is the average of those 10 values.

For those tissues in which an element does not appear in every sample, the lowest value is reported as less than the limit of sensitivity of the method for that element in that tissue.

* Physics Department, University of Tennessee, Knoxville, Tennessee

** Health Physics Division, Oak Ridge National Laboratory, Post Office Box X, Oak Ridge, Tennessee

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Miami

TABLE 1

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.2 % Av. Ash 39% Dry Wt.
1.7 % Highest 65% Highest
0.7 % Lowest 27% Lowest

Tissue [illegible] (20 Samples Analyzed)

Elements	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] (µg/g)	Lowest Value [illegible] (µg/g)
Aluminum	20		0.39	1.6	0.15
Barium	20		0.110	0.35	0.02
Bismuth	3	1*	0.16	0.36	<0.03
Boron	---	---	---	---	---
Cadmium	1	4*	0.54	0.54	<0.50
Calcium	20		600	1100	64
Cesium	---	---	---	---	---
Chromium	15	3*	0.09	0.78	<0.001
Cobalt	3		0.08	0.09	<0.03
Copper	20		1.1	1.6	0.74
Gallium	---	---	---	---	---
Gold	1	1*	0.14	0.14	<0.07
Iron	20		28	77	17
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Lead	20		1.8	4.3	0.14
Magnesium	20		150	260	66
Manganese	20		0.15	0.37	0.05
Molybdenum	---	---	---	---	[illegible]
Nickel	[illegible]		[illegible]	0.24	<0.07
Phosphorus	20		[illegible]	1350	320
Potassium	20		1300	2000	[illegible]
Silver	2	9*	0.007	0.008	<0.001
Strontium	20		[illegible]	1.5	0.27
Tin	18	1*	[illegible]	0.92	<0.07
Titanium	5	2*	[illegible]	0.37	<0.07
Vanadium	---	---	[illegible]	[illegible]	[illegible]
Zinc	20		23	33	9

(*) Trace
Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

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TABLE 2

Concentrations of Elemepts in Wet Tissue (Arranged by Elements)

28% av. ash
50% highest
11% lowest

Tissue [illegible] (23 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] (µg/g)	Lowest Value [illegible] (µg/g)
Aluminum	---	---	---	---
Barium	23	0.82	1.6	0.27
Bismuth				
Boron				
Cadmium	[illegible] NOT	DETERMINED		
Calcium	23	50,000 [illegible]	85,000 [illegible]	21,000 [illegible]
Cesium				
Chromium	---	---	---	---
Cobalt				
Copper	23	0.58	0.91	0.3
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	23	76	186	24
Lanthanum	[illegible]	[illegible]	[illegible]	[illegible]
Lead	23	7.4	30	1.1
Magnesium	23	[illegible] 1300	[illegible] 1900	[illegible] 500
Manganese	---	---	---	---
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	[illegible] NOT	DETERMINED		
Potassium	[illegible] NOT	DETERMINED		
Silver	---	---	---	---
Strontium	23	27	65	9
Tin	---	---	---	---
Titanium	---	---	---	---
Vanadium	---	---	---	---
Zinc	[illegible] NOT	DETERMINED		

(*) Trace Lanthanum [illegible]
Antimony, Arsenic, Beryllium, [illegible], Ruthenium, Thallium and Zirconium were sought in eve[illegible] sample but were not detected.

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Miami

TABLE 3

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Brain (23 Samples Analyzed.)

1.9 % Av. Ash 26 % Dry Wt.
3.5 % Highest 49 % Highest
1.4 % Lowest 19 % Lowest

Elements	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value ~~for Samples Containing Element~~ (µg/g)	Lowest Value ~~for Samples Containing Element~~ (µg/g)
Aluminum	23		0.24	0.69	0.11
Barium	3	1*	0.03	0.04	<0.003
Bismuth	----	---	----	----	----
Boron	----	---	----	----	----
Cadmium	----	---	----	----	----
Calcium	23		110	200	61
Cesium	----	---	----	----	----
Chromium	11	5*	0.013	0.035	<0.002
Cobalt	----	---	----	----	----
Copper	23		6.3	11.5	3.0
Gallium	----	----	----	----	----
Gold	----	----	----	----	----
Iron	23		50	85	31
Lanthanum	----	----	----	----	----
Lead	7	6*	1.23	3.8	<0.07
Magnesium	23		135	270	75
Manganese	23		0.27	0.54	0.17
Molybdenum	----	----	----	----	----
Nickel	----	----	----	----	----
Phosphorus	23		3300	4800	1600
Potassium	23		3700	5100	2900
Silver	16	5*	0.009	0.022	<0.002
Strontium	23		0.03	0.13	0.01
Tin	----	----	----	----	----
Titanium	----	1*	0.23*	0.23*	0.14
Vanadium	----	----	----	----	----
Zinc	23		14	19	8

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, ~~Niobium, Ruthenium~~, Thallium and Zirconium were sought in eve sample but were not detected.

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Mean

TABLE 4

Concentrations of Elements in Wet Tissue (Arranged by Elements)

	0.5 % Av. Ash	55 % Av. Dry Wt.
	0.5 % Highest	69 % Highest
	0.5 % Lowest	43 % Lowest

Tissue Liver (3 Samples Analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value ~~for Samples Containing Element (µg/g)~~	Lowest Value ~~for Samples Containing Element (µg/g)~~
Aluminum	3	0.17	0.25	0.08
Barium	1	0.025	0.025	<0.002
Bismuth	----	----	----	----
Boron	----	----	----	----
Cadmium	----	----	----	----
Calcium	3	80	105	65
Cesium	----	----	----	----
Chromium	3	0.033	0.065	0.008
Cobalt	----	----	----	----
Copper	3	0.35	0.38	0.33
Gallium	----	----	----	----
Gold	----	----	----	----
Iron	3	6	7	5
~~Lanthanum~~	----	----	----	----
Lead	1	0.05	0.05	<0.03
Magnesium	3	23	27	19
Manganese	3	0.03	0.04	0.01
Molybdenum	----	----	----	----
Nickel	----	----	----	----
Phosphorus	3	170	210	110
Potassium	3	340	390	250
Silver	----	----	----	----
Strontium	3	0.09	0.17	0.04
Tin	2	0.08	0.10	<0.03
Titanium	----	----	----	----
Vanadium	----	----	----	----
Zinc	3	3.1	3.5	2.5

(*) Trace

Antimony, Arsenic, Beryllium, Bismuth, Ruthenium, Thallium and Zirconium were sought in eve sample but were not detected.

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1.0% Av. Ash 20.5% dry Wt.

TABLE 5

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Breast (pregnant) 1 sample analyzed

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	1	0.18		
Barium	1	0.03		
Bismuth				
Boron				
Cadmium				
Calcium	1	100		
Cesium				
Chromium	1	0.076		
Cobalt				
Copper	1	1.1		
Gallium				
Gold				
Iron	1	14		
[redacted]				
Lead				
Magnesium	1	72		
Manganese	1	0.10		
Molybdenum				
Nickel				
Phosphorus	[redacted]	[redacted]	[redacted]	
Potassium	[redacted]	[redacted]	[redacted]	
Silver				
Strontium	1	0.08		
Tin				
Titanium				
Vanadium				
Zinc	1	8		

(*) Trace
Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in the sample but were not detected.

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TABLE 6

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.97 av. ash 26% dry wt.
1.3 highest 35% highest
.6 lowest 23% lowest

e [illegible] samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	20	0.30	1.6	0.07
Barium	9	0.019	0.033	<0.002
Bismuth	1	0.04	0.04	<0.02
Boron	---	---	---	---
Cadmium	1*	<0.7*	<0.7*	<0.4
Calcium	20	71	135	34
Cesium	---	---	---	---
Chromium	19	0.025	0.23	<0.002
Cobalt	---	---	---	---
Copper	20	1.3	1.7	0.6
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	20	47	230	17
Lanthanum	---	---	---	---
Lead	13	5*	0.24	0.90	<0.03
Magnesium	20	120	190	75
Manganese	20	0.11	0.24	0.01
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	20	1100	1550	500
Potassium	20	2400	3900	[illegible]
Silver	1	0.008	0.00[illegible]	<0.001
Strontium	20	0.10	0.33	0.02
Tin	6*	0.15	0.38	<0.04
Titanium	2	0.13	0.14	<0.06
Vanadium	---	---	---	---
Zinc	20	40	65	[illegible]

* Trace
Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in ev
sample but were not detected.

1169342

Miami

TABLE 7

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.1% av. ash 30% dry wt.
1.3% highest 37% highest
0.9% lowest 23% lowest

Tissue Esophagus (6 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	6	0.97	2.0	0.016
Barium	4 2*	0.058	0.07	<0.00[illegible]
Bismuth	—	—	—	—
Boron	—	—	—	—
Cadmium	—	—	—	—
Calcium	6	150	210	77
Cesium	—	—	—	—
Chromium	6	0.058	0.23	0.01[illegible]
Cobalt	2	0.12	0.17	<0.0[illegible]
Copper	6	1.5	2.5	0.695
Gallium	—	—	—	—
Gold	1*	<0.10*	<0.10*	<0.09
Iron	6	46	100	[illegible]
Lanthanum	—	—	—	—
Lead	4 2*	0.25	0.39	[illegible]
Magnesium	6	120	140	[illegible]
Manganese	6	0.15	0.49	[illegible]
Molybdenum	1	0.51	0.51	[illegible]
Nickel	1*	<0.13*	<0.13*	[illegible]
Phosphorus	6	950	1250	[illegible]
Potassium	6	2100	2500	[illegible]
Silver	1*	<0.001*	<0.001*	<0.001
Strontium	6	0.16	0.21	0.05
Tin	5	0.79	2.2	<0.07
Titanium	2 2*	0.24	0.27	<0.09
Vanadium	—	—	—	—
Zinc	6	25	36	20

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

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TABLE 8

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Heart (25 samples analyzed)

1.1% av. ash — 28% dry wt
1.5% highest — 40% highest
0.9% lowest — 21% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] Element (µg/g)	Lowest Value [illegible] Containing Element (µg/g)
Aluminum	25	0.36	3.0	[illegible]
Barium	6 1*	0.039	0.08	<[illegible]
Bismuth	—	—	—	[illegible]
Boron	1*	<0.11*	<0.11*	<[illegible]
Cadmium	—	—	—	[illegible]
Calcium	25	55	120	[illegible]
Cesium	—	—	—	[illegible]
Chromium	25	0.014	0.07	[illegible]
Cobalt	1	0.06	0.06	<[illegible]
Copper	25	4.0	5.5	[illegible]
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	25	50	155	[illegible]
Lanthanum	—	—	—	[illegible]
Lead	6 9*+	0.31	0.72	<[illegible]
Magnesium	25	135	200	[illegible]
Manganese	25	0.19	0.45	[illegible]
Molybdenum	—	—	—	[illegible]
Nickel	[illegible]	<0.10*	<0.10*	[illegible]
Phosphorus	25	1600	2200	[illegible]
Potassium	25	2600	3800	[illegible]
Silver	1 1*	0.006	0.006	<0.00[illegible]
Strontium	25	0.09	0.65	0.02[illegible]
Tin	7 9*	0.15	0.39	<0.05
Titanium	2	0.24	0.25	<[illegible]
Vanadium	—	—	—	—
Zinc	25	29	44	20

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in ev[illegible] sample but were not detected.

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Miami

TABLE 9

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.87% av. ash — 22% dry wt.
1.6 % highest — 35% highest
0.6 % lowest — 16% lowest

Tissue Intestine-Jejunum (24 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	24	0.57	4.2	[illegible]
Barium	22 1*	0.044	0.10	[illegible]
Bismuth	2	0.09	0.16	<0.03
Boron	3 2*	0.22	0.30	<0.06
Cadmium	7 14*	0.64	0.90	<0.[illegible]
Calcium	24	78	155	15
Cesium	—	—	—	[illegible]
Chromium	24	0.026	0.20	[illegible]
Cobalt	2	0.27	0.38	<0.0[illegible]
Copper	24	1.9	3.8	0.90
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	24	27	53	[illegible]
Lanthanum	—	—	—	[illegible]
Lead	21 2*	0.62	8.7	[illegible]
Magnesium	24	94	150	[illegible]
Manganese	24	0.64	1.8	[illegible]
Molybdenum	[illegible]	0.20	0.20	[illegible]
Nickel	[illegible]	0.05	0.05	[illegible]
Phosphorus	24	1300	2500	[illegible]
Potassium	24	1600	2700	[illegible]
Silver	5 9*	0.004	0.013	<0.001
Strontium	24	0.23	0.54	0.03
Tin	24	0.61	5.8	0.04
Titanium	3 2*	0.15	0.22	<0.06
Vanadium	—	—	—	—
Zinc	24	19	40	11

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in ev[illegible] sample but were not detected.

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TABLE 10

Concentrations of Elements in Wet Tissue (Arranged by Elements)

	0.667%	av. ash	29% dry
	1.2%	highest	61% high
	0.4%	lowest	17% low

Tissue Intestine - Sigmoid Colon (23 samples analyzed)

Elements	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	23		0.81	5.6	[illegible]
Barium	22	1*	0.036	0.10	[illegible]
Bismuth	3		0.04	0.06	[illegible]
Boron	1	1*	0.12	0.12	[illegible]
Cadmium		5*	<0.60*	<0.60*	[illegible]
Calcium	23		92	155	[illegible]
Cesium	—		—	—	[illegible]
Chromium	23		0.037	0.41	[illegible]
Cobalt	5	1*	0.47	1.1	[illegible]
Copper	23		1.5	4.9	[illegible]
Gallium	—		—	—	[illegible]
Gold		1*	<0.09*	<0.09*	[illegible]
Iron	23		19	49	[illegible]
Lanthanum	—		—	—	[illegible]
Lead	14	6*	0.21	0.66	[illegible]
Magnesium	23		140	570	[illegible]
Manganese	23		0.33	1.2	[illegible]
Molybdenum	1		0.12	0.12	[illegible]
Nickel	13	1*	0.18	0.60	[illegible]
Phosphorus	[illegible]		780	1700	[illegible]
Potassium	[illegible]		1300	2100	[illegible]
Silver	6	6*	0.008	0.04	[illegible]
Strontium	23		0.30	0.64	[illegible]
Tin	22		0.61	2.4	<0.[illegible]
Titanium	4	2*	0.09	0.12	<0.[illegible]
Vanadium	3	1*	0.03	0.04	<0.0[illegible]
Zinc	23		18	32	[illegible]

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in the sample but were not detected.

1169346

TABLE II

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.2% av. ash 26% dry wt.
1.4% highest 35% highest
1.0% lowest 21% lowest

Tissue Kidney (26 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/
Aluminum	26	0.28	1.2	[illegible]
Barium	15 4*	0.039	0.29	[illegible]
Bismuth	4	1.4	2.9	<0.0[illegible]
Boron	3	0.40	0.44	<0.1[illegible]
Cadmium	26	30	57	[illegible]
Calcium	26	120	250	64
Cesium	—	—	—	[illegible]
Chromium	23 2*	0.015	0.05	<0.00[illegible]
Cobalt	2 (1 High)	0.33 (2.2)	0.62 (5.9)	<0.0[illegible]
Copper	26	3.0	4.0	2.1
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	26	67	130	[illegible]
Lanthanum	[illegible]	[illegible]	[illegible]	[illegible]
Lead	26	1.3	6.2	[illegible]
Magnesium	26	120	170	[illegible]
Manganese	26	0.50	0.70	[illegible]
Molybdenum	[illegible]	[illegible]	[illegible]	[illegible]
Nickel	—	—	—	[illegible]
Phosphorus	26	1700	2000	[illegible]
Potassium	26	2200	2200	[illegible]
Silver	4 1*	0.015	0.04	<0.001
Strontium	26	0.11	0.34	0.0[illegible]
Tin	25 1*	0.23	0.58	<0.06
Titanium	1 3*	0.20	0.20	<0.10
Vanadium	—	—	—	—
Zinc	26	51	100	24

(*) Trace

Antimony, Arsenic, Beryllium, ~~Niobium, Ruthenium~~, Thallium and Zirconium were sought in ev[illegible] sample but were not detected.

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Miami

TABLE 12

Concentrations of Elements in Wet Tissue (Arranged by Elements)

3.2% av. ash — 38% dry wt.
5.4% highest — 51% highest
1.5% lowest — 24% lowest

Tissue Larynx (13 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value Sample Containing Element (µg/g)	Lowest Value Sample Containing Element (µg/g)
Aluminum	13	0.44	0.91	0.[illegible]
Barium	12	0.15	0.32	<0.0[illegible]
Bismuth	—	—	—	—
Boron	—	—	—	—
Cadmium	—	—	—	—
Calcium	13	1800	4200	210
Cesium	—	—	—	—
Chromium	3 2*	0.03	0.042	<0.0[illegible]
Cobalt	—	—	—	—
Copper	13	1.0	1.6	0.65
Gallium	—	—	—	—
Gold	—	—	—	—
Iron	13	31	50	25
Lanthanum	—	—	—	—
Lead	11 1*	3.4	12	[illegible]
Magnesium	13	270	490	[illegible]
Manganese	11 2*	0.21	0.57	[illegible]
Molybdenum	—	—	—	—
Nickel	—	—	—	—
Phosphorus	13	1900	3600	[illegible]
Potassium	13	1700	3000	[illegible]
Silver	2 1*	0.073	0.14	<0.002
Strontium	13	1.6	4.5	0.12
Tin	8 1*	0.32	0.55	<0.08
Titanium	2 2*	0.38	0.43	<0.15
Vanadium	—	—	—	—
Zinc	13	33	72	11

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

TABLE 13

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.5% av. ash — 38% dry we
2.1% highest — 54% highest
1.2% lowest — 28% lowest

Tissue Liver (26 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	26	0.61	1.3	[illegible]
Barium	6 3*	0.073	0.20	[illegible]
Bismuth	4	0.22	0.59	<0.10
Boron	2	0.25	0.32	<0.1
Cadmium	26	2.4	4.4	[illegible]
Calcium	26	70	125	35
Cesium	---	---	---	[illegible]
Chromium	15 4*	0.012	0.035	<0.00
Cobalt	7 1*	0.29	1.3	<0.0
Copper	26	9.6	>16	[illegible]
Gallium	---	---	---	[illegible]
Gold	---	---	---	[illegible]
Iron	26	180	750	[illegible]
Lanthanum	[illegible]	[illegible]	[illegible]	[illegible]
Lead	26	2.2	10	[illegible]
Magnesium	26	160	290	[illegible]
Manganese	26	1.8	3.7	[illegible]
Molybdenum	26	[illegible]	2.6	[illegible]
Nickel	[illegible]	[illegible]	[illegible]	[illegible]
Phosphorus	[illegible]	[illegible]	[illegible]	[illegible]
Potassium	26	3600	5600	[illegible]
Silver	21 4*	0.016	0.041	<0.00
Strontium	26	0.[illegible]	0.21	0.007
Tin	25 1*	0.35	0.85	<0.07
Titanium	10 2*	0.31	0.50	<0.12
Vanadium	[illegible]	[illegible]	[illegible]	[illegible]
Zinc	26	46	78	27

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in eve sample but were not detected.

1169349

TABLE 14

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Lung (26 samples analyzed)

1.2% av. ash 24% dry wt.
1.3% highest 38% highest
0.8% lowest 17% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] Element (µg/g)	Lowest Value [illegible] Samples Containing Element (µg/g)
Aluminum	26	23	>66	[illegible]
Barium	26	1.3	0.85	[illegible]
Bismuth	1	0.21	0.21	<0.03
Boron	1	0.11	0.11	<0.1
Cadmium	4 7*	0.73	1.90	[illegible]
Calcium	26	130	240	[illegible]
Cesium	4 2*	7.2	12	<1[illegible]
Chromium	26	0.14	0.59	[illegible]
Cobalt	2	0.83	1.6	<0.01
Copper	26	1.3	2.2	[illegible]
Gallium	1 1*	0.03	0.03	<0.01
Gold	—	—	—	[illegible]
Iron	26	280	570	[illegible]
Lanthanum	—	—	—	[illegible]
Lead	24 2*	0.79	6.0	<0.05
Magnesium	26	88	160	[illegible]
Manganese	26	0.11	0.21	[illegible]
Molybdenum	—	—	—	[illegible]
Nickel	[illegible]	[illegible]	0.15	[illegible]
Phosphorus	[illegible]	[illegible]	[illegible]	[illegible]
Potassium	[illegible]	[illegible]	[illegible]	[illegible]
Silver	[illegible]	0.006	0.007	<0.001
Strontium	26	0.16	0.35	0.06
Tin	22 2*	0.44	1.6	<0.01
Titanium	26	2.4	>12	0.28
Vanadium	4 2*	0.04	0.06	<0.01
Zinc	26	14	27	9.4

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169350

TABLE 15

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.98% av. ash 30%
1.1% highest 39%
0.6% lowest 18%

Tissue Muscle - Pectoral (5 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	5	0.16	0.24	[redacted]
Barium	2	0.015	0.017	[redacted]
Bismuth	---	---	---	[redacted]
Boron	---	---	---	[redacted]
Cadmium	---	---	---	[redacted]
Calcium	5	50	115	[redacted]
Cesium	---	---	---	[redacted]
Chromium	4 1*	0.09	0.33	[redacted]
Cobalt	---	---	---	[redacted]
Copper	5	0.79	1.2	[redacted]
Gallium	---	---	---	[redacted]
Gold	---	---	---	[redacted]
Iron	5	28	40	[redacted]
Lanthanum	---	---	---	[redacted]
Lead	2	0.15	0.26	[redacted]
Magnesium	5	110	140	[redacted]
Manganese	5	0.08	0.14	[redacted]
Molybdenum	---	---	---	[redacted]
Nickel	[redacted]	[redacted]	[redacted]	[redacted]
Phosphorus	[redacted]	[redacted]	[redacted]	[redacted]
Potassium	[redacted]	[redacted]	[redacted]	[redacted]
Silver	[redacted]	[redacted]	[redacted]	[redacted]
Strontium	5	0.05	0.12	[redacted]
Tin	1	0.20	0.20	<0.03
Titanium	1 1*	0.16	0.16	[redacted]
Vanadium	---	---	---	[redacted]
Zinc	5	40	55	[redacted]

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in the sample but were not detected.

1169351

TABLE 16

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.2% avg. ash 30% dry
1.7% highest 37% dry
1.0% lowest 24% dry

Tissue [illegible] - Psoas (21 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Elements (µg/g)
Aluminum	21	0.29	2.7	[illegible]
Barium	9 1*	0.045	0.18	[illegible]
Bismuth	1	0.31	0.31	[illegible]
Boron	—	—	—	[illegible]
Cadmium	—	—	—	[illegible]
Calcium	21	69	610	[illegible]
Cesium	—	—	—	[illegible]
Chromium	16 4*	0.009	0.03	[illegible]
Cobalt	1	4.2	4.2	[illegible]
Copper	21	0.88	1.8	[illegible]
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	21	34	48	[illegible]
Lanthanum	—	—	—	[illegible]
Lead	6 7*	1.8	6.4	[illegible]
Magnesium	21	150	260	[illegible]
Manganese	21	0.05	0.09	[illegible]
Molybdenum	[illegible]	[illegible]	[illegible]	[illegible]
Nickel	[illegible]	[illegible]	[illegible]	[illegible]
Phosphorus	[illegible]	[illegible]	[illegible]	[illegible]
Potassium	[illegible]	[illegible]	5100	[illegible]
Silver	[illegible]	0.005	0.005	[illegible]
Strontium	19 2*	0.04	0.15	[illegible]
Tin	2 2*	0.07	0.08	[illegible]
Titanium	1 2*	0.26	0.26	[illegible]
Vanadium	—	—	—	[illegible]
Zinc	21	45	59	[illegible]

(*) Trace

Antimony, Arsenic, Beryllium, Bismuth, Ruthenium, Thallium and Zirconium were sought in this sample but were not detected.

1169352

TABLE 17

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Omentum (12 samples analyzed) 0.29% avg ash 85% [illegible] 0.6 % highest 94% high[illegible] 0.1 % lowest 68% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] Samples Containing Element (µg/g)	Lowest Value [illegible] Samples Containing Element (µg/g)
Aluminum	12	0.44	1.3	[illegible]
Barium	11 1*	0.035	0.09	[illegible]
Bismuth	1 1*	0.02	0.02	[illegible]
Boron	2	0.03	0.03	[illegible]
Cadmium	3 1*	0.33	0.6	[illegible]
Calcium	12	53	170	[illegible]
Cesium	—	—	—	[illegible]
Chromium	12	0.03	0.16	[illegible]
Cobalt	3	0.06	0.36	[illegible]
Copper	12	0.86	1.1	[illegible]
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	12	80	50	[illegible]
Lanthanum	[illegible]	[illegible]	[illegible]	[illegible]
Lead	10 1*	0.24	0.96	[illegible]
Magnesium	12	27	84	[illegible]
Manganese	12	0.06	0.23	[illegible]
Molybdenum	—	—	—	[illegible]
Nickel	8	0.04	0.07	[illegible]
Phosphorus	[illegible]	[illegible]	[illegible]	[illegible]
Potassium	[illegible]	[illegible]	[illegible]	[illegible]
Silver	[illegible]	0.001	[illegible]	[illegible]
Strontium	12	[illegible]	[illegible]	[illegible]
Tin	9 1*	0.05	0.1	[illegible]
Titanium	11	0.07	[illegible]	[illegible]
Vanadium	—	—	—	[illegible]
Zinc	12	3.7	11	[illegible]

(*) Trace

Antimony, Arsenic, Beryllium, Lutetium, Niobium, Ruthenium, Thallium and Zirconium were sought in sample but were not detected.

1169353

TABLE 18

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Pancreas (25 samples analyzed)

1.3% av. ash
2.0% highest
0.7% lowest

34% dry wt.
74% highest
22% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	25	0.31	1.0	0.10
Barium	12 2*	0.033	0.064	<0.002
Bismuth	2 1*	0.05	0.05	<0.03
Boron	1 6*	0.15	0.15	<0.07
Cadmium	19 3*	1.0	2.5	<0.7
Calcium	25	230	300	70
Cesium	—	—	—	—
Chromium	22 (1 high) 3*	0.019 (0.073)	0.087 (>1.2)	<0.001*
Cobalt	3	0.15	0.25	<0.03
Copper	25	1.7	2.6	1.0
Gallium	—	—	—	—
Gold	1	0.33	0.33	<0.07
Iron	25	31	57	18
Lanthanum	—	—	—	—
Lead	24	0.79	3.2	<0.06
Magnesium	25	140	240	68
Manganese	25	1.3	2.2	0.52
Molybdenum	1*	<0.21*	<0.11*	<0.08
Nickel	1*	<0.06*	<0.06*	<0.05
Phosphorus	25	2600	3300	[illegible]
Potassium	25	2600	4700	[illegible]
Silver	4	0.009	0.02	<0.0[illegible]
Strontium	25	0.11	0.27	[illegible]
Tin	8 5*	0.35	1.3	<0.05
Titanium	1 2*	0.10	0.10	<0.07
Vanadium	—	—	—	—
Zinc	25	25	39	10

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169354

TABLE 19

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Prostate (4 samples analyzed)

1.5% av. ash 30% dry wt.
2.0% highest 52% highest
1.3% lowest 22% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	4	2.2	4.8	0.4[illegible]
Barium	2	0.045	0.06	<0.003[illegible]
Bismuth	---	---	---	---
Boron	2*	<0.14*	<0.14*	<0.1[illegible]
Cadmium	1 2*	1.2	1.2	<0.78[illegible]
Calcium	4	370	800	36[illegible]
Cesium	---	---	---	---
Chromium	4	0.016	0.028	0.007[illegible]
Cobalt	1	0.07	0.07	<0.05
Copper	4	1.1	1.5	0.7[illegible]
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	4	29	36	20[illegible]
Lanthanum	---	---	---	---
Lead	4	0.87	1.7	0.1[illegible]
Magnesium	4	220	280	160[illegible]
Manganese	4	0.42	1.3	<0.0[illegible]
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	4	1450	2500	[illegible]
Potassium	4	3000	3000	[illegible]
Silver	1*	<0.001*	<0.001*	<0.00[illegible]
Strontium	4	0.35	0.96	[illegible]
Tin	3	0.41	0.80	<0.07
Titanium	1	0.49	0.49	<0.13
Vanadium	---	---	---	---
Zinc	4	180	380	26[illegible]

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in ever sample but were not detected.

1169355

Miami

TABLE 10

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.5% av. ash 27% dry wt.
3.4% highest 30% highest
1.1% lowest 24% lowest

Tissue [illegible] (25 samples analyzed)

Elements	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	25		0.38	1.8	[illegible]
Barium	7	1*	0.071	0.27	<0.002[illegible]
Bismuth	2		0.09	0.10	<0.0[illegible]
Boron	2	2*	0.34	0.45	<0.11[illegible]
Cadmium		3*	<0.9	<0.9*	<0.8[illegible]
Calcium	25		98	390	45[illegible]
Cesium	—		—	—	[illegible]
Chromium	16	1*	0.017	0.07	<0.0[illegible]
Cobalt	1		1.9	1.9	<0.0[illegible]
Copper	25		1.3	3.1	0.8[illegible]
Gallium	—		—	—	[illegible]
Gold	—		—	—	[illegible]
Iron	25		260	880	[illegible]
Lanthanum	—		—	—	[illegible]
Lead	20	4*	0.84	6.0	<0.06
Magnesium	25		120	160	[illegible]
Manganese	25		0.10	0.25	[illegible]
Molybdenum	[illegible]		[illegible]	[illegible]	[illegible]
Nickel	[illegible]		[illegible]	[illegible]	[illegible]
Phosphorus	25		2200	[illegible]	[illegible]
Potassium	25		3600	5700	[illegible]
Silver	1	1*	0.006	0.006	<0.00[illegible]
Strontium	25		0.08	0.78	0.01
Tin	18	5*	0.29	0.58	<0.06
Titanium	5	3*	0.24	0.35	<0.11
Vanadium	—		—	—	—
Zinc	25		19	27	11

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in eve[illegible] sample but were not detected.

1169356

TABLE 21

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.74% av. ash 26% dry wt.
0.9 % highest 64% highest
0.5% lowest 15% lowest

Tissue [illegible] (25 samples analyzed)

Elements	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	25		0.29	0.81	0.0[illegible]
Barium	21	1*	0.047	0.47	<0.00[illegible]
Bismuth	1		0.04	0.04	0.02
Boron	5	4*	0.24	0.42	<0.05
Cadmium	2	9*	0.58	0.8	<0.3[illegible]
Calcium	25		110	500	44
Cesium	---		---	---	---
Chromium	23	1*	0.044	0.66	<0.001
Cobalt	3	1*	0.48	0.72	<0.02
Copper	25		1.8	3.6	1.[illegible]
Gallium	---		---	---	---
Gold	1		0.10	0.10	<0.05
Iron	25		26	58	11
Lanthanum	[illegible]		[illegible]	[illegible]	[illegible]
Lead	18	7*	0.15	0.80	<0.04*
Magnesium	25		84	135	47
Manganese	25		0.37	1.9	0.10
Molybdenum	4		0.21	0.38	<0.05
Nickel	3		0.08	0.16	<0.[illegible]
Phosphorus	25		1100	1450	[illegible]
Potassium	25		1400	2200	[illegible]
Silver	[illegible]	4*	0.01	0.01	[illegible]
Strontium	25		0.18	0.38	[illegible]
Tin	20	2*	0.68	7.5	<0.04
Titanium		3*	<0.07*	<0.07*	<0.07
Vanadium	---		---	---	---
Zinc	25		19	36	12

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169357

TABLE 22

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.1% av. ash 22% dry wt.
1.2% highest 39% highest
0.9% lowest 16% lowest

Tissue Teeth (14 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	14	0.42	1.4	0.[illegible]
Barium	6 2*	0.03	0.033	<0.00[illegible]
Bismuth	2	0.89	1.4	<0.0[illegible]
Boron	---	---	---	---
Cadmium	2*	<0.60*	<0.60*	<0.[illegible]
Calcium	14	95	130	61
Cesium	---	---	---	---
Chromium	14	0.020	0.054	0.00[illegible]
Cobalt	---	---	---	---
Copper	14	0.82	1.6	0.4[illegible]
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	14	23	40	[illegible]
Lanthanum	---	---	---	---
Lead	11 1*	0.09	1.1	<0.05
Magnesium	14	100	150	78
Manganese	14	0.13	0.20	[illegible]
Molybdenum	---	---	---	---
Nickel	1	0.18	0.18	<0.[illegible]
Phosphorus	14	1500	2300	[illegible]
Potassium	14	2200	3100	[illegible]
Silver	1 1*	0.006	0.006	[illegible]
Strontium	14	0.08	0.22	[illegible]
Tin	7 7*	0.17	0.40	<0.05
Titanium	2 2*	0.13	0.15	<0.[illegible]
Vanadium	---	---	---	---
Zinc	14	17	23	13

(*) Trace

Antimony, Arsenic, Beryllium, ~~Niobium~~ Lanthanum, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169358

TABLE 23

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.3% av. ash 22.6% dry wt.

Tissue [illegible] (1 sample analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] (µg/g)	Lowest Value [illegible] (µg/g)
Aluminum	1	0.31	---	---
Barium	1	0.012	---	---
Bismuth	---	---	---	---
Boron	---	---	---	---
Cadmium	---	---	---	---
Calcium	1	105	---	---
Cesium	---	---	---	---
Chromium	1	0.025	---	---
Cobalt	---	---	---	---
Copper	1	1.1	---	---
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	1	41	---	---
Lanthanum	---	---	---	---
Lead	1	0.09	---	---
Magnesium	1	125	---	---
Manganese	1	0.14	---	---
Molybdenum	---	---	---	---
Nickel	1	0.13	---	---
Phosphorus	[illegible]	1800	---	---
Potassium	[illegible]	3000	---	---
Silver	[illegible]	---	---	---
Strontium	1	0.18	---	---
Tin	1	0.34	---	---
Titanium	---	---	---	---
Vanadium	---	---	---	---
Zinc	1	18	---	---

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169359

TABLE 24

Miami

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.6% av. ash 60.4% dry w

Tissue Tuna (1 sample analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	1	0.13	---	---
Barium	1*	<0.002*	---	---
Bismuth	---	---	---	---
Boron	---	---	---	---
Cadmium	---	---	---	---
Calcium	1	57	---	---
Cesium	---	---	---	---
Chromium	1	0.010	---	---
Cobalt	---	---	---	---
Copper	1	0.55	---	---
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	1	27	---	---
Lanthanum	---	---	---	---
Lead	1	0.05	---	---
Magnesium	1	36	---	---
Manganese	1	0.02	---	---
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	[illegible]	580	---	---
Potassium	[illegible]	880	---	---
Silver	1*	<0.001*	---	---
Strontium	1	0.07	---	---
Tin	1	0.05	---	---
Titanium	---	---	---	---
Vanadium	---	---	---	---
Zinc	1	6	---	---

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in ever sample but were not detected.

1169360

Miami

TABLE 15

Concentrations of Elements in Wet Tissue (Arranged by Elements)

2.0% aw ash 27.5% dry wt

Tissue Tongue (1 sample analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	1	0.20	---	---
Barium	1	0.08	---	---
Bismuth				
Boron				
Cadmium	---	---	---	---
Calcium	1	84	---	---
Cesium				
Chromium	1	0.012	---	---
Cobalt				
Copper	---	1.5	---	---
Gallium				
Gold				
Iron	1	26	---	---
Lanthanum	---	---	---	---
Lead	---	---	---	---
Magnesium	1	110	---	---
Manganese	1	0.12	---	---
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	1	1300	---	---
Potassium	1	2500	---	---
Silver	1	0.001*	---	---
Strontium	1	0.06	---	---
Tin	---	---	---	---
Titanium	---	---	---	---
Vanadium	---	---	---	---
Zinc	1	25	---	---

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in eve sample but were not detected.

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TABLE 26

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue [illegible] (6 samples analyzed)

2.1% av. ash — 44% dry wt
3.4% highest — 64% highest
1.4% lowest — 32% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	6	2.4	8	[illegible]
Barium	6	0.11	0.19	[illegible]
Bismuth	—	—	—	[illegible]
Boron	—	—	—	[illegible]
Cadmium	—	—	—	[illegible]
Calcium	6	690	1500	55
Cesium	—	—	—	—
Chromium	5	0.047	0.085	<0.001
Cobalt	1	0.08	0.08	<0.06
Copper	6	0.68	1.3	0.75
Gallium	—	—	—	[illegible]
Gold	—	—	—	[illegible]
Iron	6	0.38	62	20
Lanthanum	[illegible]	[illegible]	[illegible]	[illegible]
Lead	5 1*	1.9	3.5	<0.17*
Magnesium	6	180	230	[illegible]
Manganese	6	0.17	0.25	[illegible]
Molybdenum	—	—	—	[illegible]
Nickel	—	—	—	[illegible]
Phosphorus	[illegible]	[illegible]	1060	[illegible]
Potassium	[illegible]	[illegible]	3860	[illegible]
Silver	[illegible]	0.005	0.005	[illegible]
Strontium	6	0.75	1.3	0.20
Tin	5	0.56	0.95	<0.17
Titanium	3	1.0	1.2	<0.11
Vanadium	—	—	—	—
Zinc	6	21	34	6

(*) Trace

Antimony, Arsenic, Beryllium, Lanthanum, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169362

TABLE 17

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.8% av. ash 23% dry wt.
1.3% highest 62% highest
0.3% lowest 23% lowest

Tissue Bladder (20 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	20	0.29	0.88	0.10
Barium	17 2*	0.040	0.12	<0.00
Bismuth	3	0.013	0.02	<0.02
Boron	3 1*	0.39	0.45	<0.05
Cadmium	---	---	---	---
Calcium	20	120	210	63
Cesium	1	2.7	2.7	<1
Chromium	19 1*	0.022	0.09	<0.001
Cobalt	2	0.11	0.19	<0.02
Copper	20	0.81	1.6	0.38
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	20	20	78	8
Lanthanum	---	---	---	---
Lead	11 7*	0.28	0.78	<0.01
Magnesium	20	91	145	5
Manganese	20	0.12	0.20	[illegible]
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	20	760	1800	[illegible]
Potassium	20	1600	3000	[illegible]
Silver	1	0.002	0.00	[illegible]
Strontium	20	0.21	0.92	[illegible]
Tin	17 2*	0.23	1.6	<0.01
Titanium	3 2*	0.09	0.16	<0.05
Vanadium	---	---	---	---
Zinc	20	21	38	10

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in ever sample but were not detected.

1169363

TABLE 28

Concentrations of Elements in Wet Tissue (Arranged by Elements)

Tissue Uterus (6 samples analyzed)

1.0% av. ash, 1.3% highest, 0.8% lowest
28% dry wt., 34% highest, 21% lowest

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	6	0.46	0.99	0.21
Barium	4 1*	0.05	0.10	<0.002
Bismuth	1	0.13	0.13	<0.03
Boron	2*	<0.10*	<0.10*	<0.08
Cadmium	1 1*	0.56	0.56	<0.5
Calcium	6	160	330	18
Cesium	—	—	—	—
Chromium	5 (1 high)	0.018	0.032 (3.5)	0.011
Cobalt	1	0.66	0.66	<0.03
Copper	6	0.95	1.4	0.66
Gallium	—	—	—	—
Gold	—	—	—	—
Iron	6	22	47	12
Lanthanum	—	—	—	—
Lead	2 3*	0.2	0.21	<0.05
Magnesium	6	100	130	77
Manganese	6	0.10	0.13	0.06
Molybdenum	—	—	—	—
Nickel	—	—	—	—
Phosphorus	6	1000	1150	[illegible]
Potassium	6	1190	2500	[illegible]
Silver	[illegible]	0.006	0.006	[illegible]
Strontium	6	0.21	0.39	0.08
Tin	5	0.37	0.82	<0.05
Titanium	1	0.22	0.22	<0.08
Vanadium	—	—	—	—
Zinc	6	18	30	11

(*) Trace

Antimony, Arsenic, Beryllium, Niobium, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169364

TABLE 29

Concentrations of Elements in Wet Tissue (Arranged by Elements)

1.2% av. ash — 24% dry wt.
1.4% highest — 26% highest
0.9% lowest — 21% lowest

Tissue Pregnant Uterus (2 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value ~~for Samples Containing Element~~ (µg/g)	Lowest Value ~~for Samples Containing Element~~ (µg/g)
Aluminum	—	—	—	—
Barium	2	105	140	70
Bismuth	—	—	—	—
Boron	—	—	—	—
Cadmium	1*	<0.001*	<0.001	<0.001
Calcium	—	—	—	—
Cesium	—	—	—	—
Chromium	1*	<0.001*	<0.001*	<0.001
Cobalt	—	—	—	—
Copper	2	1.3	1.8	0.75
Gallium	—	—	—	—
Gold	—	—	—	—
Iron	2	53	90	16
~~Lanthanum~~				
Lead	—	—	—	—
Magnesium	2	110	150	73
Manganese	2	0.11	0.14	0.08
Molybdenum	—	—	—	—
Nickel	—	—	—	—
Phosphorus	2	1000	1150	
Potassium	2	2900	3300	
Silver	2	0.15	0.15	
Strontium	2	0.16	0.17	
Tin	—	—	—	—
Titanium	—	—	—	—
Vanadium	—	—	—	—
Zinc	2	24	25	22

(*) Trace

Antimony, Arsenic, Beryllium, ~~Niobium~~ Lanthanum, Ruthenium, Thallium and Zirconium were sought in every sample but were not detected.

1169365

Miami

TABLE 3

Concentrations of Elements in Wet Tissue (Arranged by Elements)

0.83% av. ash 33% dry wt.
1.0 % highest 39% highest
0.6 % lowest 27% lowest

Tissue Vagina (4 samples analyzed)

Elements	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aluminum	4	0.21	0.26	0.15
Barium	2 2*	0.028	0.036	<0.002
Bismuth	1*	<0.04*	<0.04*	<0.03
Boron	1*	<0.10*	<0.10*	<0.06
Cadmium	1 1*	0.36	0.36	<0.36
Calcium	4	140	200	80
Cesium	---	---	---	---
Chromium	4	0.018	0.027	0.01
Cobalt	1	0.78	0.78	<0.03
Copper	4	0.77	1.0	0.50
Gallium	---	---	---	---
Gold	---	---	---	---
Iron	4	22	45	12
Lanthanum	---	---	---	---
Lead	2 2*	0.15	0.16	<0.05
Magnesium	4	67[illegible]	92[illegible]	45[illegible]
Manganese	4	0.07	0.07	0.05
Molybdenum	---	---	---	---
Nickel	---	---	---	---
Phosphorus	4	580	660	[illegible]
Potassium	4	1200	1450	[illegible]
Silver	[illegible]	[illegible]	[illegible]	[illegible]
Strontium	4	0.22	0.32	[illegible]
Tin	4	0.23	0.59	0.09
Titanium	1	0.33	0.33	<0.06
Vanadium	---	---	---	---
Zinc	4	14	16	12

(*) Trace

Antimony, Arsenic, Beryllium, ~~Niobium, Ruthenium~~, Thallium and Zirconium were sought in every sample but were not detected.

1169366

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Aluminum

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	20	0.39	1.6	0.1[illegible]
Bone	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Brain	23	23	0.24	0.69	[illegible]
Breast					
Normal	3	3	0.17	0.25	0.0[illegible]
Pregnant	1	1	0.18	0.18	[illegible]
Diaphragm	20	20	0.30	1.6	0.0[illegible]
Esophagus	6	6	0.97	2.0	0.16
Heart	25	25	0.36	3.0	0.0[illegible]
Intestine					
Jejunum	24	24	0.57	4.2	0.1[illegible]
Sigmoid colon	23	23	0.81	5.6	0.0[illegible]
Kidney	26	26	0.28	1.2	0.12
Larynx	13	13	0.44	0.91	0.2[illegible]
Liver	26	26	0.61	1.3	0.1[illegible]
Lung	26	26	23	>66	1.7[illegible]
Muscle	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pectoral	[illegible]	5	0.16	0.24	[illegible]
Psoas	[illegible]	21	0.29	2.7	[illegible]
Omentum	[illegible]	12	0.44	1.3	[illegible]
Pancreas	[illegible]	25	0.31	1.0	0.10
Prostate	[illegible]	[illegible]	2.2	4.8	[illegible]
Spleen	[illegible]	25	0.38	1.8	[illegible]
Stomach	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Testes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sterile	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tongue	1	1	0.20	0.20	[illegible]
Trachea	6	6	2.4	8	0.20
Urinary Bladder	20	20	0.29	0.88	0.10
Uterus					
Normal	6	6	0.46	0.99	0.15
Pregnant	2				
Vagina	4	4	0.21	0.26	0.15

(*) Trace

The number in [illegible]

1169367

Concentrations of Elements in Wet Tissue (Arranged by Tissue

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	20	0.11	0.35	0.02
Bone	23	23	0.82	1.6	0.02
Brain	23	3 1 *	0.03	0.04	< 0.00
Breast					
Normal	3	1	0.025	0.025	< 0.00
Pregnant	1	1	0.03	0.03	< 0.00
Diaphragm	20	9	0.019	0.033	< 0.00
Esophagus	6	4 2 *	0.058	0.07	< 0.00
Heart	25	6 1 *	0.039	0.08	< 0.00
Intestine					
Jejunum	24	22 1 *	0.044	0.10	< 0.00
Sigmoid colon	23	22 1 *	0.036	0.10	< 0.002
Kidney	26	15 4 *	0.039	0.29	< 0.00
Larynx	13	12	0.15	0.32	< 0.00
Liver	26	6 3*	0.073	0.20	< 0.00
Lung	26	26	1.3	0.85	0.02
Muscle					
Pectoral	5	2	0.015	0.017	< 0.00
Psoas	21	19 1*	0.045	0.18	< 0.00
Omentum	12	11 1 *	0.035	0.09	
Pancreas	25	12 2*	0.033	0.064	< 0.00
Prostate	[illegible]	[illegible]	0.045	0.06	< 0.00
Spleen	[illegible]	[illegible]	0.07	0.27	< 0.00
St[illegible]ch	[illegible]	[illegible]	0.0[illegible]	[illegible]	< 0.00
T[illegible]	[illegible]	[illegible]	0.0[illegible]	0.033	< [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	1	1*	< 0.002	< 0.002	< 0.[illegible]
Tongue	1	1	0.08	0.08	[illegible]
Trachea	6	6	0.11	0.19	0.0[illegible]
Urinary Bladder	20	17 2*	0.040	0.12	< 0.002
Uterus					
Normal	6	4 1 *	0.05	0.10	< 0.002
Pregnant	2	2	105	140	70
Vagina	4	2 2 *	0.028	0.036	< 0.002*

(*) Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

1169368

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Bismuth

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	3 1 *	0.16	0.36	<0.03
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20	1	0.04	0.04	<0.0
Esophagus	6				
Heart	25				
Intestine					
Jejunum	24	2	0.09	0.16	<0.03
Sigmoid colon	23	3	0.04	0.06	<0.02
Kidney	26	4	1.4	2.9	<0.04
Larynx	13				
Liver	26	4	0.22	0.59	<0.0
Lung	26	1	0.21	0.21	<0.03
Muscle					
Pectoral	5				
Psoas	21	1	0.31	0.31	<0.0
Omentum	12	1	0.02	0.02	<0.0
Pancreas	25	2	0.05	0.05	<0.03
Prostate	4				
Spleen	25	2	0.09	0.10	<0.0
Stomach					
Testes					
Normal	14	2	0.89	1.4	<0.0
[illegible]					
Thymus	14				
Tongue	1				
Trachea	6				
Urinary Bladder	20	3	0.013	0.02	<0.02
Uterus					
Normal	6	1	0.13	0.13	<0.03
Pregnant	1				
Vagina	4	1 *	0.04 *	0.04 *	<0.03

*) Trace

The number in parentheses indicates the number of samples of this particular tissue analyzed

1169369

Concentrations of Elements in Wet Tissues (Arranged by Tissue

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	10				
Bone	[illegible]				
Brain	[illegible]				
Breast	[illegible]				
Normal	[illegible]				
Pregnant	[illegible]				
Diaphragm	10				
Esophagus	6				
Heart	25	1 *	<0.11 *	<0.11 *	<0.09
Intestine					
Jejunum	24	3 2 *	0.22	0.30	<0.06
Sigmoid colon	23	1 1 *	0.12	0.12	<0.0[illegible]
Kidney	26	3	0.40	0.44	<0.1[illegible]
Larynx	[illegible]				
Liver	26	2	0.25	0.32	[illegible]
Lung	26	1	0.11	0.11	<0.[illegible]
Muscle	[illegible]				
Pectoral	[illegible]				
Psoas	[illegible]				
Omentum	[illegible]	2	0.03	0.03	<0.0[illegible]
Pancreas	[illegible]	1 6	0.15	0.15	<0.0[illegible]
Prostate	[illegible]	2 *	<0.14	<0.14	<0.[illegible]
Spleen	[illegible]	2 2	0.34	0.45	<[illegible]
Stomach	[illegible]	5 4	0.2[illegible]	[illegible]	<[illegible]
Testes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tongue	[illegible]				
Trachea	[illegible]				
Urinary Bladder	20	3 1 *	0.39	0.45	<0.0[illegible]
Uterus					
Normal	6	2 *	<0.10 *	<0.10 *	<0.08
Pregnant	2	[illegible]	[illegible]	[illegible]	[illegible]
Vagina	4	1 *	<0.10 *	<0.10 *	<0.06

* Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

1169370

Concentrations of Elements in Wet Tissues (Arranged by Tissues)

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	1 1.*	0.54	0.54	<0.5
Bone	[redacted]	[redacted] NOT	DETER	MINED	[redacted]
Brain	13	[redacted]	[redacted]	[redacted]	[redacted]
Breast	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Normal	3	[redacted]	[redacted]	[redacted]	[redacted]
Pregnant	1	[redacted]	[redacted]	[redacted]	[redacted]
Diaphragm	20	[redacted] 1*	<0.7*	<0.7*	<0.[redacted]
Esophagus	6	[redacted]	[redacted]	[redacted]	[redacted]
Heart	35	[redacted]	[redacted]	[redacted]	[redacted]
Intestine	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Jejunum	24	7 1*	0.64	0.90	<0.36
Sigmoid colon	23	[redacted] 5*	<0.60*	<0.60*	<0.3[redacted]
Kidney	26	26	30 [redacted]	57	10[redacted]
Larynx	13	[redacted]	[redacted]	[redacted]	[redacted]
Liver	26	26	2.4	4.4	0.78
Lung	26	4 7*	0.73	0.90	<0.50
Muscle	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Pectoral	5 [redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Psoas	3 [redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Omentum	12 [redacted]	3 1*	0.33	0.6[redacted]	<0.0[redacted]
Pancreas	25 [redacted]	19 3*	1.1	2.5*	<0.7[redacted]
Prostate	1 [redacted]	[redacted]	1.2	1.2	<0.7[redacted]
Spleen	25 [redacted]	[redacted] 3*	<0.9	<[redacted]*	<0.[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Thymus	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Tongue	1 [redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Trachea	6	[redacted]			[redacted]
Urinary Bladder	20				[redacted]
Uterus - normal	6	1 1*	0.56	0.56	<0.5[redacted]
Normal		[redacted]	[redacted]	[redacted]	[redacted]
Pregnant	2	[redacted] 1*	<0.001*	<0.001*	<0.001[redacted]
Vagina	4	1 1*	0.36	0.36	<0.36

Trace

The number in parentheses [redacted]

1169371

Concentrations of Element in Wet Tissue (Arrangedby Tissues)

Element: Calcium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(μg/g)	Highest Value for Samples Containing Element(μg/g)	Lowest Value for Samples Containing Element(μg/g)
Aorta	20	20	600	1100	6[illegible]
Bone	23	23	50,000	85,000	[illegible]
Brain	23	23	110	200	61[illegible]
Breast					
Normal	3	3	80	105	65
Pregnant	1	1	100	100	
Diaphragm	20	20	71	135	34
Esophagus	6	6	150	210	77
Heart	25	25	55	120	25
Intestine					
Jejunum	24	24	78	155	15
Sigmoid colon	23	23	92	155	7
Kidney	26	26	120	250	64
Larynx	13	13	1800	4200	210
Liver	26	26	70	125	35
Lung	26	26	130	240	69
Muscle					
Pectoral	5	5	50	115	2[illegible]
Psoas	[illegible]	21	69	610	19
Omentum	12	12	53	170	8
Pancreas	25	25	130	300	70
Prostate	[illegible]	[illegible]	370	800	36
Spleen	20	25	98	390	[illegible]
Stomach	[illegible]	23	[illegible]	500	[illegible]
Testes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]	[illegible]	[illegible]	57	[illegible]
Tongue	[illegible]	1	84	84	[illegible]
Trachea	6	6	690	1500	55
Urinary Bladder	20	20	120	210	63
Uterus					
Normal	6	6	180	330	18
Pregnant	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Vagina	4	4	140	200	80

(*) Trace

The number in parenthesis [illegible] samples [illegible] tissue analyzed

1169372

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Cesium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20				
Bone	33				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20				
Esophagus	6				
Heart	25				
Intestine					
Jejunum	24				
Sigmoid colon	23				
Kidney	26				
Larynx	13				
Liver	26				
Lung	26	4 2 *	7.2	12	<1
Muscle	[illegible]				
Pectoral	25				
Psoas	21				
Omentum	12				
Pancreas	25				
Prostate	4				
Spleen	25				
Stomach	25				
Testes	[illegible]				
Normal	14				
Sterile	[illegible]				
Thymus	1				
Tongue	1				
Trachea	6				
Urinary Bladder	20	1	2.7	2.7	<1
Uterus					
Normal	6				
Pregnant	2				
Vagina	4				

*) Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

1169373

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Chromium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	15 3 *	0.09	0.78	< [illegible]
Bone	[illegible]				
Brain	23	11 5 *	0.013	0.035	< 0.002
Breast					
Normal	[illegible] 3	[illegible] 3	[illegible] 0.033	[illegible] 0.065	[illegible]
Pregnant	1	1	0.076	0.076	
Diaphragm	20	19	0.025	0.23	< 0.001
Esophagus	6	6	[illegible] 0.058	0.23	0.01
Heart	25	25	0.014	0.07	0.00[illegible]
Intestine					
Jejunum	24	24	0.026	0.20	0.00[illegible]
Sigmoid colon	23	23	0.037	0.41	0.003
Kidney	26	23 2 *	0.015	0.05	< 0.001
Larynx	13	3 2*	0.03	0.042	< 0.002
Liver	26	15 4*	0.012	0.035	< 0.001
Lung	26	26	0.14	0.59	0.01
Muscle	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pectoral	5	4 1 *	0.09	0.33	< 0.001 *
Psoas	21	16 4 *	0.009	0.03	< 0.001
Omentum	12	12	0.03	0.16	[illegible] 0.0005
Pancreas	25	(1 4 2) 22 3 *	(0.013) 0.019	(>1.2) 0.087	< 0.001 *
Prostate	4	4	0.016	0.028	0.007
Spleen	25	16 1 *	0.017	0.07	< 0.001
Stomach	25	23 1 *	0.044	0.66	< 0.001
Testes					
Normal	14	14	0.020	0.054	0.004
Sterile	1	1	0.025	0.025	
Thymus	1	1	0.010	0.010	
Tongue	1	1	0.012	0.012	
Trachea	6	5	0.047	0.085	< 0.001
Urinary Bladder	20	1[illegible] 1 *	~~0.22~~ 0.022	0.09	< 0.001 *
Uterus					
Normal	[illegible]	[illegible] (1 2 2) 5	0.018	[illegible] (3 2) 0.032	0.014
Pregnant	2	[illegible] 1 *	< 0.001 *	< 0.001 *	< 0.001
Vagina	4	4	0.018	0.027	0.01

(*) Trace

The number [illegible] analyzed

1169[illegible]

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

ment: Cobalt

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	3	0.08	0.09	< 0.03
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20				
Esophagus	6	2	0.12	0.17	< 0.04
Heart	25	1	0.06	0.06	< 0.04
Intestine					
Jejunum	24	2	0.27	0.38	< 0.03
Sigmoid colon	23	5 1 *	0.47	1.1	< 0.02
Kidney	26	(1 Higa) 2	(2.2) 0.33	(3.9) 0.62	< 0.04
Larynx	13				
Liver	26	7 1 *	0.29	1.3	< 0.05
Lung	26	2	0.83	1.6	< 0.03
Muscle					
Pectoral	5				
Psoas	21	1	4.2	4.2	< 0.04
Omentum	12	3	0.06	0.16	< 0.004
Pancreas	25	3	0.15	0.25	< 0.03
Prostate	4	1	0.07	0.07	< 0.05
Spleen	25	1	1.9	1.9	< 0.05
Stomach	25	3 1 *	0.48	0.72	< 0.02
Testes					
Normal	14				
Sterile					
Thymus	1				
Tongue	1				
Trachea	6	1	0.08	0.08	< 0.06
Urinary Bladder	20	2	0.11	0.19	< 0.02
Uterus					
Normal	6	1	0.66	0.66	< 0.03
Pregnant	2				
Vagina	4	1	0.78	0.78	< 0.03

*) Trace
The number [illegible]

1169375

TABLE

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Copper

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [redacted] (µg/g)	Lowest Value [redacted] Containing Element (µg/g)
Aorta	20	20	1.1	1.6	0.74
Bone	23	23	0.58	0.91	0.3
Brain	23	23	[redacted] 6.3	11.5	3.0
Breast					
Normal	3	3	[redacted] 0.35	[redacted] 0.38	0.33 [redacted]
Pregnant	1	1	1.1	1.1	
Diaphragm	20	20	1.3	1.7	0.6 [redacted]
Esophagus	6	6	1.5 [redacted]	2.5 [redacted]	0.95 [redacted]
Heart	25	25	4.0	5.3	2.7
Intestine					
Jejunum	24	24	1.9	3.8	0.90
Sigmoid colon	23	23	1.5	4.9	0.80
Kidney	26	26	3.0	4.0	2.1
Larynx	13	13	1.0	1.6	0.69
Liver	26	26	9.6	>16	5.3
Lung	26	26	1.3	[redacted] 2.2	0.82
Muscle	[redacted]	[redacted]			
Pectoral	5	5	0.79	1.2	0.5
Psoas	21	21	0.88	1.8	0.56
Omentum	12	12	0.36	1.1	0.14
Pancreas	25	25	1.9	2.6	1.0
Prostate	4	4	1.1	1.5	0.74
Spleen	25	25	1.3	3.1	0.80
Stomach	25	25	1.6	3.6	1.1
Testes	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Normal	14	[redacted]	[redacted]	1.6	0.44
Sterile	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Thymus	1	1	0.99	0.55	
Tongue	1	1	1.5	1.5	
Trachea	6	6	0.88	1.3	0.75
Urinary Bladder	20	20	0.81	1.6	0.38
Uterus - normal	6	6	0.99	1.4	0.66
[redacted]					
Pregnant	2	2	1.3	1.8	0.75
Vagina	[redacted]	[redacted]	[redacted] 0.77	1.0	0.50

(*) Trace

[redacted]

1169376

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Gallium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(µg/g)	Highest Value for Samples Containing Element(µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	10				
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	10				
Esophagus	6				
Heart	25				
Intestine					
Jejunum	24				
Sigmoid colon	23				
Kidney	26				
Larynx	13				
Liver	26				
Lung	26	1 1 *	0.03	0.03	<0.01
Muscle					
Pectoral	5				
Psoas	21				
Omentum	12				
Pancreas	15				
Prostate	4				
Spleen	25				
Stomach	25				
Testes					
Normal	14				
Sterile					
Thymus	1				
Tongue	1				
Trachea	6				
Urinary Bladder	10				
Uterus					
Normal	6				
Pregnant	2				
Vagina	4				

(*) Trace

1169377

Concentrations of Elements in Wet Tissue (Arranged by Tissue

Elements

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	1 1 *	0.14	0.14	< 0.07
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20				
Esophagus	6	1*	< 0.10*	0.10*	< 0.07
Heart	25				
Intestine					
Jejunum	24			1	
Sigmoid colon	23	1 *	< 0.09 *	< 0.09 *	< 0.04
Kidney	26				
Larynx	13				
Liver	26				
Lung	26				
Muscle					
Pectoral	5				
Psoas	21				
Omentum	[illegible]				
Pancreas	25	1	0.33	0.33	< 0.07
Prostate	4				
Spleen	25				
Stomach	[illegible]	1	0.10	0.10	[illegible]
Testes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sterile	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]				
Tongue	1				
Trachea	6				
Urinary Bladder	20				
Uterus					
Normal	6				
Pregnant	2				
Vagina	4				

*) Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

1169318

TABLE

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Iron

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	20	28	77	17
Bone	23	23	76	186	24
Brain	23	23	50	85	31
Breast					
Normal	3	3	6	7	5
Pregnant	1	1	14	14	
Diaphragm	20	20	47	230	17
Esophagus	6	6	46	100	20
Heart	25	25	50	155	30
Intestine					
Jejunum	24	24	27	53	12
Sigmoid colon	23	23	19	49	9
Kidney	26	26	67	130	32
Larynx	13	13	31	50	23
Liver	26	26	180	750	31
Lung	26	26	280	570	70
Muscle					
Pectoral	5	5	28	40	17
Psoas	21	21	34	48	23
Omentum	12	12	20	50	12
Pancreas	25	25	31	57	18
Prostate	4	4	29	36	20
Spleen	25	25	260	880	[illegible]
Stomach	[illegible]	25	26	58	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	14	14	28	40	14
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	1	1	27	27	[illegible]
Tongue	1	1	26	26	[illegible]
Trachea	6	6	0.38	62	20
Urinary Bladder	20	20	20	78	8
Uterus - Normal	6	6	22	47	12
[illegible]					
Pregnant	2	2	53	90	16
Vagina	4	4	22	45	12

+) Trace

The number in parentheses [illegible] samples of that particular tissue analyzed.

1169379

TABLE

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Lead

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value [illegible] Element (µg/g)	Lowest Value [illegible] Samples Containing Element (µg/g)
Aorta	20	20	1.8	4.3	0.14
Bone	23	23	7.4	30	1.1
Brain	23	7 6 *	1.23	3.8	<0.07
Breast					
Normal	3	1.1 *	0.05	0.05	< 0.03
Pregnant	1	[illegible]	[illegible]	[illegible]	[illegible]
Diaphragm	20	13 5 *	0.24	0.90	<0.03
Esophagus	6	4 2 *	0.25	0.39	< 0.05
Heart	25	6 9 *	0.31	0.72	< 0.05
Intestine					
Jejunum	24	21 2 *	0.62	8.7	< 0.04
Sigmoid colon	23	14 6 *	0.21	0.66	< 0.02
Kidney	26	26	1.3	6.2	0.14
Larynx	13	11	3.4	12	< 0.08
Liver	26	26	2.2	10	0.48
Lung	26	24 2*	0.79	6.0	<0.05
Muscle					
Pectoral	5	2	0.15	0.26	<0.05
Psoas	21	6 7 *	1.8	6.4	<0.05
Omentum	12	10 1 *	0.26	0.96	<0.01
Pancreas	25	24	0.79	3.1	<0.06
Prostate	4	4	0.87	1.7	0.17
Spleen	25	20 4 *	0.84	6.0	<0.06
Stomach	25	18 7 *	0.15	0.80	<0.04
Testes					
Normal	14	11 1*	0.09	1.1	<0.05
Sterile	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	1	1	0.05	0.05	
Tongue	1				
Trachea	6	5 1 *	1.9	3.5	<0.17 *
Urinary Bladder	20	11 7 *	0.28	0.78	<0.04
Uterus					
Normal	6	2 3 *	0.2	0.21	<0.05
Pregnant	2				
Vagina	4	0 0 *	0.15	0.16	<0.05

(*) Trace

1169380

TABLE 73

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Magnesium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	20	150	260	66
Bone	23	23	[illegible]	[illegible]	[illegible]
Brain	23	23	135	270	75
Breast					
Normal	3	3	23	27	19
Pregnant	1	1	72	72	
Diaphragm	20	20	120	190	73
Esophagus	6	6	120	140	100
Heart	25	25	135	200	63
Intestine					
Jejunum	24	24	94	150	56
Sigmoid colon	23	23	140	370	60
Kidney	26	26	120	170	71
Larynx	13	13	270	490	140
Liver	26	26	160	290	96
Lung	26	26	88	160	56
Muscle					
Pectoral	5	5	110	140	60
Psoas	21	21	150	260	87
Omentum	12	12	87	84	65
Pancreas	25	25	140	240	68
Prostate	4	4	220	280	160
Spleen	27	27	120	160	80
Stomach	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Testes	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Normal	14	14	180	150	70
Sterile	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	1	1	36	36	
Tongue	1	1	110	110	
Trachea	6	6	180	230	125
Urinary Bladder	20	20	91	145	52
Uterus, normal	6	6	100	130	77
Women					
Pregnant	2	2	110	150	73
Vagina	4	4	67	92	45

(*) Trace

The numbers in parentheses indicate the number of samples of that particular tissue analyzed

1169381

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Manganese

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (μg/g)	Highest Value for Samples Containing Element (μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	20	0.15	0.37	0.07
Bone	23	[illegible]	[illegible]	[illegible]	[illegible]
Brain	23	23	0.27	0.54	0.17
Breast					
Normal	3	3	0.03	0.04	0.01
Pregnant	1	1	0.10	0.10	
Diaphragm	20	20	0.11	0.24	0.04
Esophagus	6	6	0.15	0.49	0.05
Heart	25	25	0.19	0.45	0.07
Intestine					
Jejunum	24	24	0.64	1.8	0.13
Sigmoid colon	23	23	0.33	1.2	0.07
Kidney	26	26	0.30	0.70	0.25
Larynx	13	11 2 *	0.21	0.57	<0.05
Liver	26	26	1.8	3.7	0.66
Lung	26	26	0.11	0.21	0.05
Muscle					
Pectoral	5	5	0.08	0.14	0.02
Psoas	21	21	0.05	0.09	0.02
Omentum	12	12	0.06	0.23	0.02
Pancreas	25	25	1.3	2.2	0.50
Prostate	4	4	0.42	1.3	0.09
Spleen	25	25	0.20	0.25	0.0
Stomach	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Testes					
Normal	[illegible]	[illegible]	0.11	0.20	0.10
Sterile					
Thymus	1	1	0.02	0.02	[illegible]
Tongue	1	1	0.12	0.12	
Trachea	6	6	0.17	0.25	0.09
Urinary Bladder	20	20	0.12	0.20	0.04
Uterus					
Normal	6	6	0.10	0.13	0.06
Pregnant	2	2	0.11	0.14	0.08
Vagina	4	4	0.07	0.07	0.05

(*) Trace

The number [illegible]

1169302

TABLE 11

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Molybdenum

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20				
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20				
Esophagus	6	1	0.51	0.51	<0.09
Heart	25				
Intestine					
Jejunum	24	1	0.20	0.20	<0.06
Sigmoid colon	23	1	0.12	0.12	<0.04
Kidney	26	26	0.50	0.70	0.25
Larynx	13				
Liver	26	26	1.5	2.6	0.35
Lung	26				
Muscle					
Pectoral	5				
Psoas	21				
Omentum	12				
Pancreas	23	2	<0.11	<0.11	<0.08
Prostate	4				
Spleen	25				
Stomach	23	4	0.21	0.38	<0.05
Testes					
Normal	4				
Sterile					
Thymus	1				
Tongue	1				
Trachea	6				
Urinary Bladder	20				
Uterus					
Normal	6				
Pregnant					
Vagina	4				

(*) Trace

1169383

Tissues	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	[illegible]
Aorta	2	[illegible]	[illegible]	[illegible]
Bone	[illegible]	[illegible]	[illegible]	[illegible]
Brain	[illegible]	[illegible]	[illegible]	[illegible]
Breast	[illegible]	[illegible]	[illegible]	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]
Pregnant	[illegible]	[illegible]	[illegible]	[illegible]
Diaphragm	[illegible]	[illegible]	[illegible]	[illegible]
Esophagus	0	<0.13	[illegible]	[illegible]
Heart	1	<0.16	[illegible]	[illegible]
Intestine				
Jejunum	1	0.05	0.05	<0.05
Sigmoid colon	1	0.12	[illegible]	[illegible]
Kidney	[illegible]	[illegible]	[illegible]	[illegible]
Larynx	[illegible]	[illegible]	[illegible]	[illegible]
Liver	[illegible]	[illegible]	[illegible]	[illegible]
Lung	2	0.13	0.15	[illegible]
Muscle	[illegible]	[illegible]	[illegible]	[illegible]
Pectoral	[illegible]	[illegible]	[illegible]	[illegible]
Psoas	[illegible]	[illegible]	[illegible]	[illegible]
Omentum	[illegible]	[illegible]	[illegible]	[illegible]
Pancreas	[illegible]	[illegible]	[illegible]	[illegible]
Prostate	[illegible]	[illegible]	[illegible]	[illegible]
Spleen	[illegible]	[illegible]	[illegible]	[illegible]
Stomach	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]	[illegible]	[illegible]	[illegible]
Tongue	[illegible]	[illegible]	[illegible]	[illegible]
Trachea	[illegible]	[illegible]	[illegible]	[illegible]
Urinary Bladder	[illegible]	[illegible]	[illegible]	[illegible]
Uterus				
Normal	4	[illegible]	[illegible]	[illegible]
Pregnant	2	[illegible]	[illegible]	[illegible]
Vagina	4	[illegible]	[illegible]	[illegible]

[illegible] Trace

[illegible] number in parentheses indicates the number of samples of that particular tissue analyzed

1169384

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Phosphorus

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(μg/g)	Highest Value for Samples Containing Element(μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	20	830	1350	[illegible]
Bone	[illegible]	NOT DETERMINED			
Brain	23	23	3300	4900	1600
Breast					
Normal	3	3	170	210	110
Pregnant	1	1	750	750	
Diaphragm	20	20	1100	1550	500
Esophagus	6	6	950	1250	[illegible]
Heart	25	25	1600	2200	1100
Intestine					
Jejunum	24	24	1300	2500	[illegible]
Sigmoid colon	23	23	780	1700	[illegible]
Kidney	26	26	1700	2000	[illegible]
Larynx	13	13	1900	3600	560
Liver	26	26	2900	3800	1800
Lung	26	26	1140	2300	790
Muscle	5	5	1200	1550	550
Pectoral					
Psoas	21	21	1600	2300	1000
Omentum	12	12	220	630	100
Pancreas	25	25	2400	3300	1050
Prostate	4	4	1450	2500	940
Spleen	25	25	2200	3000	1550
Stomach	25	25	1100	1450	570
Testes					
Normal	14	14	1500	2300	1000
Sterile	[illegible]	[illegible]	1800	[illegible]	[illegible]
Thymus	1	1	580	580	
Tongue	1	1	1300	1300	
Trachea	6	6	900	1050	620
Urinary Bladder	20	20	740	1800	360
Uterus					
Normal	6	6	1000	1150	[illegible]
Pregnant	2	2	1000	1150	680
Vagina	4	4	520	660	400

(*) Trace

[illegible]

1169385

Concentrations of Elements in Wet Tissue (Arranged by Tissue)

Element: Potassium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	20	1300	2000	[illegible]
Bone	[illegible]	[illegible]	[illegible]	MISSED	[illegible]
Brain	23	23	3700	3700	[illegible]
Breast					
Normal	13	3	340	390	290
Pregnant	12	1	1100	1100	[illegible]
Diaphragm	20	20	2400	3900	1100
Esophagus	6	6	2100	2900	1350
Heart	25	25	2600	3800	[illegible]
Intestine					
Jejunum	24	24	1600	2700	840
Sigmoid colon	23	23	1300	2100	570
Kidney	26	26	2200	3200	[illegible]
Larynx	13	13	1700	3000	770
Liver	26	26	3400	5600	1000
Lung	26	26	2200	3400	1000
Muscle					
Pectoral	[illegible]	[illegible]	2400	3300	[illegible]
Psoas	[illegible]	21	3200	5100	[illegible]
Omentum	[illegible]	12	[illegible]	1100	[illegible]
Pancreas	[illegible]	25	[illegible]	4700	[illegible]
Prostate	[illegible]	[illegible]	[illegible]	3000	[illegible]
Spleen	[illegible]	25	[illegible]	3100	[illegible]
Stomach	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Testis	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tongue	[illegible]	[illegible]	2500	[illegible]	[illegible]
Trachea	[illegible]	6	2100	3800	[illegible]
Urinary Bladder	20	20	1500	3000	[illegible]
Uterus	6	5	1750	2500	[illegible]
Normal	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pregnant	3	[illegible]	2900	3130	[illegible]
Vagina	4	4	1200	1450	[illegible]

*) Trace

[illegible]

1769386

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Silver

Tissues	Number of Samples Analyzed	Number of Samples Containing Element		Average Value for Samples Containing Element (µg/g)	Highest Value [redacted] (µg/g)	Lowest Value [redacted] (µg/g)
Aorta	20	2	9 *	0.007	0.008	< 0.001
Bone	23					
Brain	23	16	5 *	0.009	0.022	< 0.002
Breast						
Normal	3					
Pregnant	1					
Diaphragm	20	1		0.008	0.008	< 0.001
Esophagus	6		1 *	< 0.001 *	< 0.001 *	< 0.001 *
Heart	25	1	1 *	0.006	0.006	< 0.001 *
Intestine						
Jejunum	24	5	9 *	0.004	0.013	< 0.001
Sigmoid colon	23	6	6 *	0.008	0.04	< 0.001
Kidney	26	4	1 *	0.015	0.04	< 0.001
Larynx	13	2	1 *	0.013	0.14	< 0.002
Liver	26	21	4 *	0.016	0.11	< 0.001
Lung	26	3	3 *	0.006	0.007	< 0.001
Muscle						
Pectoral	5					
Psoas	21	1	1 *	0.005	0.005	< 0.001
Omentum	12	6	5 *	0.0019	0.005	< 0.0001
Pancreas	25	4	4 *	0.009	0.02	< 0.001
Prostate	4		1 *	< 0.001 *	< 0.001 *	< 0.001
Spleen	25	1	1 *	0.006	0.006	< 0.001
Stomach	25	1	4 *	0.01	0.01	< 0.001
Testes	[redacted]					
Normal	14	1	1 *	0.[illegible]	0.[illegible]	< 0.001
Sterile	[redacted]					
Thymus	1		1 *	< 0.001 *	< 0.001 *	< 0.001
Tongue	1		1 *	< 0.001 *	< 0.001 *	< 0.001 *
Trachea	6	1		0.005	0.005	< 0.001
Urinary Bladder	20	3	1 *	0.002	0.002	< 0.001
Uterus - Normal	6	1		0.006	0.006	< 0.001
[redacted]						
Pregnant	2	2		0.15	0.15	0.14
Vagina	4					

(*) Trace

[redacted]

1169387

[redacted] Tissues (Arranged by Tissues) [redacted]

Strontium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value ~~for Samples Containing Element~~ (µg/g)	Lowest Value ~~for Samples Containing Element~~ (µg/g)
Aorta	20	20	0.80	1.5	0.27
Bone	23	23	27	65	9
Brain	23	23	0.03	0.13	0.01
Breast					
Normal	3	3	0.09	0.17	0.04
Pregnant	1	1	0.08	0.08	
Diaphragm	20	20	0.10	0.33	0.02
Esophagus	6	6	0.16	0.31	0.05
Heart	25	25	0.09	0.65	0.02
Intestine					
Jejunum	24	24	0.23	0.54	0.03
Sigmoid colon	23	23	0.30	0.64	0.15
Kidney	26	26	0.11	0.34	0.04
Larynx	13	13	1.6	4.5	0.12
Liver	26	26	0.05	0.21	0.007
Lung	26	26	0.16	0.35	0.06
Muscle - Pectoral	5	5	0.05	0.12	0.01
~~Pectoral~~					
Psoas	21	19 2 *	0.04	0.15	<0.005 *
Omentum	12	12	0.08	0.30	0.02
Pancreas	25	25	0.11	0.27	0.02
Prostate	4	4	0.35	0.96	0.10
Spleen	25	25	0.08	0.78	0.01
Stomach	25	25	0.18	0.38	0.05
Testes					
[redacted]	14	14	0.08	0.22	0.02
Sterile	1	1	0.18	0.18	
Thymus	1	1	0.07	0.07	
Tongue	1	1	0.06	0.06	
Trachea	6	6	0.75	1.3	0.20
Urinary Bladder	20	20	0.24	0.92	0.06
Uterus - Normal	6	6	0.21	0.39	0.08
~~Normal~~					
Pregnant	2	0	0.16	0.17	0.14
Vagina	4	4	0.22	0.32	0.16

(*) Trace

The number in parenthesis indicates the number of samples of that particular tissue analyzed [redacted]

1169388

TABLE 5.3

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Tin

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element (µg/g)	Highest Value for Samples Containing Element (µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	18 1 *	0.28	0.92	<0.07
Bone	23				
Brain	23				
Breast					
Normal	3	2	0.08	0.10	<0.03
Pregnant	1				
Diaphragm	20	9 6 *	0.15	0.38	<0.04
Esophagus	6	5	0.79	2.2	<0.07
Heart	25	7 9 *	0.15	0.39	<0.05
Intestine					
Jejunum	24	24	0.61	5.8	0.04
Sigmoid colon	23	22	0.61	2.4	<0.04
Kidney	26	25 1 *	0.23	0.58	<0.06 *
Larynx	13	8 1 *	0.32	0.55	<0.08
Liver	26	25 1 *	0.35	0.85	<0.07 *
Lung	26	22 2 *	0.44	1.6	<0.04
Muscle - pectoral	5	1	0.20	0.20	<0.03
~~Pectoral~~					
Psoas	21	2 2*	0.08	0.08	<0.05
Omentum	12	9 1*	0.05	0.14	<0.02
Pancreas	25	8 5*	0.35	1.3	<0.05
Prostate	4	3	0.41	0.80	<0.07
Spleen	25	18 5 *	0.29	0.58	<0.06
Stomach	25	20 2*	[illegible]	7.5	<0.04
Testes					
Normal	14	7 3*	0.17	0.40	<0.05
Sterile	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Thymus	1	1	0.05	0.05	
Tongue	1				
Trachea	6	5	0.56	0.95	<0.17
Urinary Bladder	20	17 2 *	0.23	1.6	<0.04
Uterus					
Normal	6	5	0.37	0.82	<0.05
Pregnant	2				
Vagina	4	[illegible]	[illegible]	[illegible]	[illegible]

(*) Trace

The number in parentheses [illegible]

1169384

TABLE —.

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Titanium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(µg/g)	Highest Value for Samples Containing Element(µg/g)	Lowest Value for Samples Containing Element (µg/g)
Aorta	20	5 2 *	0.24	0.37	< 0.07
Bone	23				
Brain	23	1 *	< 0.23 *	< 0.23 *	< 0.14
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20	2 3 *	0.12	0.14	< 0.06
Esophagus	6	2 2 *	0.24	0.27	< 0.09
Heart	25	2	0.24	0.25	< 0.09
Intestine	24	3 24	0.15	0.22	< 0.06
[redacted]					
Sigmoid colon	23	4 2 *	0.09	0.12	< 0.04
Kidney	26	1 3 *	0.20	0.20	< 0.10
Larynx	13	2 2 *	0.38	0.43	< 0.15
Liver	[redacted]	10 2 *	0.31	0.50	< 0.12
Lung	26	26	2.4	12	0.28
Muscle					
Pectoral	5	1 1 *	0.16	0.16	< 0.06
Psoas	21	1 2 *	0.26	0.26	< 0.10
Omentum	12	11	0.07	0.11	< 0.04
Pancreas	25	1 2 *	0.10	0.10	< 0.07
Prostate	4	1	0.49	0.49	< 0.13
Spleen	25	5 3 *	0.24	0.35	< 0.11
Stomach	25	3 *	0.07 *	< 0.07 *	< 0.07 *
Testes					
Normal	14	2 2 *	0.13	0.15	< 0.10
Sterile	[redacted]				
Thymus	1				
Tongue	1				
Trachea	6	3	1.0	1.2	< 0.14
Urinary Bladder	20	3 8 *	0.09	0.16	< 0.05
Uterus					
Normal	6	1	0.22	0.22	< 0.08
Pregnant	2				
Vagina	4	1	0.13	0.13	< 0.06

(*) Trace

The number [redacted] tissue analyzed

1169390

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: Vanadium

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(µg/g)	Highest Value for Samples Containing Element(µg/g)	Lowest Value for Samples Containing Element(µg/g)
Aorta	20				
Bone	23				
Brain	23				
Breast					
Normal	3				
Pregnant	1				
Diaphragm	20				
Esophagus	6				
Heart	25				
Intestine					
Jejunum	24				
Sigmoid colon	23	3 14	0.03	0.04	<0.01
Kidney	26				
Larynx	13				
Liver	26				
Lung	26	12	0.04	0.06	< 0.01
Muscle					
Pectoral	5				
Psoas	21				
Omentum	12				
Pancreas	25				
Prostate	4				
Spleen	26				
Stomach	25				
Testes					
Normal	14				
Steri					
Thymus	1				
Tongue	1				
Trachea	6				
Urinary Bladder	20				
Uterus					
Normal	6				
Pregnant	2				
Vagina	4				

(*) Trace

The number in parentheses [illegible]

1169391

Concentration of Metals in Adult Tissue (Arranged by Tissues)

Zinc

Tissues	Number of Samples Analyzed	Number of Samples Containing Element	Average Value for Samples Containing Element(μg/g)	Highest Value for Samples Containing Element(μg/g)	Lowest Value for Samples Containing Element (μg/g)
Aorta	20	20	23	33	9
Bone	23	NOT	DETERMINED		
Brain	23	23	14	19	8
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	31	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]ndragm[illegible]	20	20	40	65	14
[illegible]gophagus	6	6	25	36	20
Heart	25	25	29	44	20
Intestine					
Jejunum	24	24	19	40	11
Sigmoid colon	23	23	18	32	10
Kidney	26	26	51	100	24
Larynx	13	13	38	72	11
Liver	26	26	46	78	27
Lung	2[illegible]	26	14	27	9.4
Muscle					
Pectoral	5	5	40	55	12
Psoas	21	21	45	59	34
Omentum	12	12	3.7	11	2
Pancreas	25	25	25	39	10
Prostate	4	4	180	380	26
Spleen	25	25	19	27	11
Stomach	25	25	19	36	12
Testis					
Normal	14	14	17	23	13
Sterile	1	1	18	18	
[illegible]	1	1	6	6	
[illegible]gus	[illegible]	1	25	25	[illegible]
[illegible]chea	6	6	21	34	6
[illegible]inary Bladder	20	20	21	38	10
[illegible]rus					
Normal	6	6	18	30	11
[illegible]gnant	2	2	24	25	[illegible]
[illegible]ne	4	4	14	16	12
[illegible]trace					

[illegible] in parentheses indicate the number of samples of that particular tissue analyzed.

1169392

TABLE 57

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: CESIUM

Tissues	Number of Samples Composited	~~Number of Samples Containing Element~~	Composite ~~Average~~ Value ~~for Samples Containing Element~~ (µg/g)	~~Highest Value for Samples Containing Element (µg/g)~~	~~Lowest Value for Samples Containing Element (µg/g)~~
Aorta	20				
Bone	23				
Brain	23				
[redacted]					
[redacted]					
[redacted]					
Diaphragm	20		<0.05*		
Esophagus	6				
Heart	25				
Intestine					
Jejunum	24				
Sigmoid colon	23				
Kidney	26				
Larynx	13				
Liver	26				
Lung	26				
Muscle	26		0.06		
[redacted]	[redacted]				
[redacted]					
Omentum	12				
Pancreas	25		0.09		
Prostate	4		N.D.		
Spleen	25				
Stomach	25				
[redacted]					
[redacted]					
[redacted]					
Thymus	1		N.D.		
[redacted]					
Trachea	6		N.D.		
Urinary Bladder	20				
Uterus	6				
[redacted]					
[redacted]					
Vagina	4				

(+) Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

N.D. Not Determined

1169393

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: LITHIUM

Tissues	Number of Samples Computed	~~Number of Samples Containing Element~~	~~Average~~ Computed Value ~~for Samples Containing Element~~ (μg/g)	Highest Value ~~for Samples Containing Element~~ (μg/g)	Lowest Value ~~for Samples Containing Element~~ (μg/g)
Aorta	20		0.024		
Bone	23				
Brain	23				
[redacted]					
[redacted]					
[redacted]					
Diaphragm	20		<0.005*		
Esophagus	6		0.010		
Heart	25		<0.006		
Intestine					
Jejunum	24		0.004		
Sigmoid colon	23		0.008		
Kidney	26				
Larynx	13				
Liver	26				
Lung	26		0.024		
Muscle	26				
[redacted]					
[redacted]					
Omentum	12				
OVARY	3		0.012		
Pancreas	25				
Prostate	4				
Spleen	25				
Stomach	25		0.007		
Testes	14		0.008		
[redacted]					
[redacted]					
Thymus	1				
THYROID			ND		
[redacted]					
Trachea	6		N.D.		
Urinary Bladder	20		0.013		
Uterus	6				
[redacted]					
[redacted]					
Vagina	4				

(*) Trace

The number in parentheses indicates the number of samples of that particular tissue analyzed

N.D. Not determined

1169394

Concentrations of Elements in Wet Tissue (Arranged by Tissues)

Element: RUBIDIUM

Tissues	Number of Samples Composited	~~Number of Samples Containing Element~~	Composite ~~Average~~ Value ~~for Samples Containing Element~~ (µg/g)	~~Highest Value for Samples Containing Element~~ (µg/g)	~~Lowest Value for Samples Containing Element~~ (µg/g)
Aorta	20		14		
Bone	23				
Brain	23		30		
[redacted]					
[redacted]					
[redacted]					
Diaphragm	20		15		
Esophagus	6		15		
Heart	25		15		
Intestine					
Jejunum	24		19		
Sigmoid colon	23		5		
Kidney	26		20		
Larynx	13				
Liver	26		90		
Lung	[redacted]				
Muscle	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				
Pancreas	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				
Stomach	[redacted]				
Testes	[redacted]				
[redacted]					
Thymus	[redacted]				
[redacted]	[redacted]				
Trachea	[redacted]				
Urinary Bladder	[redacted]		[redacted]		
Uterus	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				
Vagina	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				

1169395