P.O.Box 1136 Klamath Falls, OR 97601 541-885-8804

July 1, 1996

This brief review of the 72 Hour Fresh Juice Stability Study encompasses:

- A. Three of the five juicers used in the study
- B. The time period of just post-juicing through the end of the second hour with data collected at the end of each 15 minute period
- C. Apples and carrots juiced through each of the three reviewed juicers
- D. The parameters 1. Temperature; 2.pH; and, 3. Carbohydrate index

JUICER SELECTION: The representative juicer types selected for this review include:

- A. GP-E1503 "Green Star Gold" a one-step, twin-gear triturating type juicer with magnetic and Far infrared technologies
- B. 2-Step Process Juicer step one is grinding of the produce, and step two includes pressing the juice from the pulp with an hydraulic press
- C. Masticating a one-step, high-speed, auger-feed type juicer

TIME PERIOD: Most juicer advertisements encourage consumption of fresh squeezed juices just after juicing. It is commonly recognized that many consumers desire to consume their juice leisurely, perhaps taking over an hour. Based upon both manufacturer recommendation and consumer use, this review covers the period of time most generally accepted as common for consumption of fresh squeezed juice. Fifteen minute test periods were established based upon observation of fifty different individuals and their consumption pattern.

PRODUCE SELECTION: Apples and carrots were the produce of choice for this study. Each represents an opposite end of the produce spectrum.

Apples - a soft, pulpy fruit which is difficult to obtain a pulp-free juice from Carrots -a fibrous vegetable that can be difficult to grind without building up heat in the juicer and juice

Both are recognized as the most often juiced members of the produce family.

Commercial grades of apples and carrots were selected from a grocery-chain store. It was determined that more people would choose a commercial grade of produce to juice due to:

- A. Cost
- B. Availability
- C. Organic status determines no pesticide or herbicidal residues; however, the nutritional profile may or may not be superior to commercial grade

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PARAMETERS:

Temperature

Juices are heated by the heat build-up created by the speed of the grinding / cutting / masticating mechanism of the juicer. Heat accumulation in the juice exacerbates:

- A. DNA, enzymatic and mineral degeneration
- B. Bacteria proliferation
- C. Fermentation process
- D. More acidic pH

pН

A higher pH in juice indicates a greater concentration of oxygen present. Minerals such as calcium are more readily absorbed and utilized by the body if they are bound to oxygen. Bio-available minerals are a great part of the reason for consuming fresh squeezed juice. Therefore, fresh squeezed juices need to be as alkaline as possible, and remain that way as long as possible.

Carbohydrate index

Measures both sugar level and mineral solids. The higher the carbohydrate index:

- A. The greater concentration of minerals present
- B. More complex sugars are present to be used by the body
- C. Sweet taste of the juice increases
- D. Overall stability of the juice increases

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Apple

-Juiced through 3 different juicers

-Initial temperature of fruit prior to juicing - 15.75 °C

Temperature of juice

	•	after juicing:		at end of two hours:
GP-E1503 "Gold":		15.8 °C		16.1 °C
2-step:		22.9 ° C		 20.2 ° C
Mastication:	•••	17.4 ° C		 18.0 ° C
pH of juice				
	just	after juicing		at end of two hours:
GP-E1503 "Gold":	٠	4.59		 4.25
2-step:		4.10		 3.89
Mastication:	•••	4.28		 4.20
Carbohydrate index	of juic	e :		
•	just	after juicing:		at end of two hours:
GP-E1503 "Gold":	<i>,</i>	13.6		 13.3

12.6

13.0

Carrot

-Juiced through 3 different juicers

2-step: ... 13.4 Mastication: ... 13.6

-Initial temperature of vegetable prior to juicing - 18.7 °C

Temperature of juice

Tomporatare or jaioo						
	just a	fter juicir	ng:		á	at end of two hours:
GP-E1503 "Gold":	·	19.5 ° C)			20.8 ° C
2-Step:		23.8 ° C	;			22.0 ° C
Mastication:		21.4 ° C	;			21.2 °C
pH of juice						
	just a	fter juicir	ng:			at end of two hours:
GP-E1503 "Gold":		6.14				6.15
2-step:		5.82				5.99
Masticating:		5.90				6.17

Carbohydrate index of juice:

	just a	after juicing:		at end of two hours:
GP-E1503 "Gold":		9.0	 	8.7
2-step:		8.6	 	7.8
Masticating:		9.1	 	8.4
-		3		

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Klamath Falls, OR 97601 Phone: 541-885-8804

STUDY DATA: FRESH JUICE STABILITY STUDY

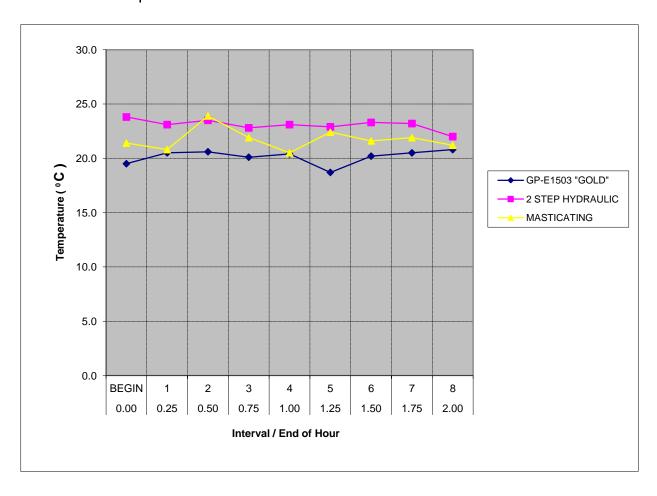
CYCLE: A

ITEM: CARROT JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

TEMPERATURE (° C)

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	19.5	20.5	20.6	20.1	20.4	18.7	20.2	20.5	20.8
2 STEP HYDRAULIC	23.8	23.1	23.5	22.8	23.1	22.9	23.3	23.2	22.0
MASTICATING	21.4	20.8	23.9	21.9	20.5	22.4	21.6	21.9	21.2



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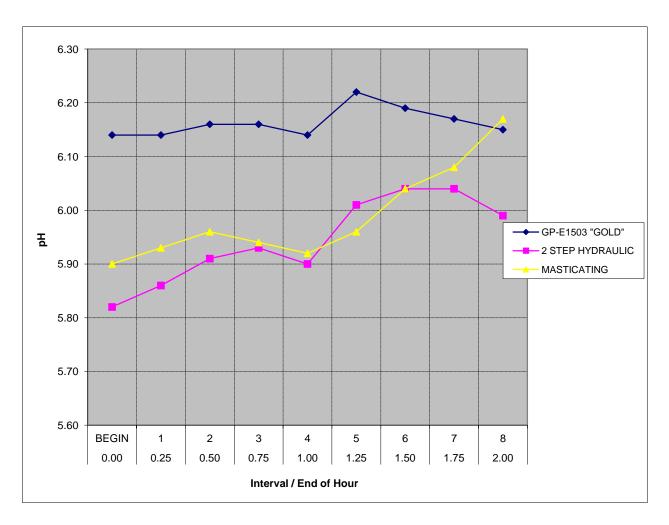
CYCLE: A

ITEM: CARROT JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

<u>pH</u>

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	6.14	6.14	6.16	6.16	6.14	6.22	6.19	6.17	6.15
2 STEP HYDRAULIC	5.82	5.86	5.91	5.93	5.90	6.01	6.04	6.04	5.99
MASTICATING	5.90	5.93	5.96	5.94	5.92	5.96	6.04	6.08	6.17



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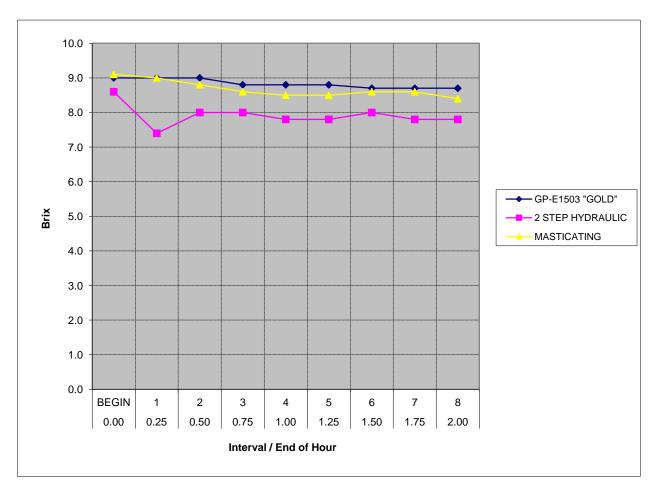
CYCLE: A

ITEM: CARROT JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

CARBOHYDRATE INDEX

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	9.0	9.0	9.0	8.8	8.8	8.8	8.7	8.7	8.7
2 STEP HYDRAULIC	8.6	7.4	8.0	8.0	7.8	7.8	8.0	7.8	7.8
MASTICATING	9.1	9.0	8.8	8.6	8.5	8.5	8.6	8.6	8.4



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STUDY DATA: FRESH JUICE STABILITY STUDY

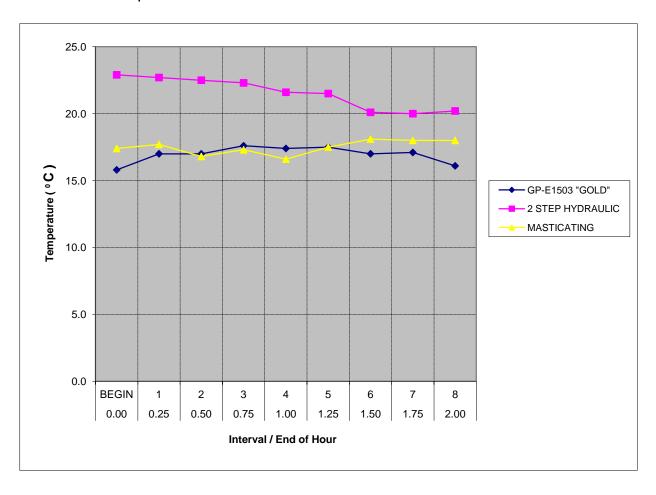
CYCLE : D

ITEM: APPLE JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

TEMPERATURE (° C)

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	15.8	17.0	17.0	17.6	17.4	17.5	17.0	17.1	16.1
2 STEP HYDRAULIC	22.9	22.7	22.5	22.3	21.6	21.5	20.1	20.0	20.2
MASTICATING	17.4	17.7	16.8	17.3	16.6	17.5	18.1	18.0	18.0



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STUDY DATA: FRESH JUICE STABILITY STUDY

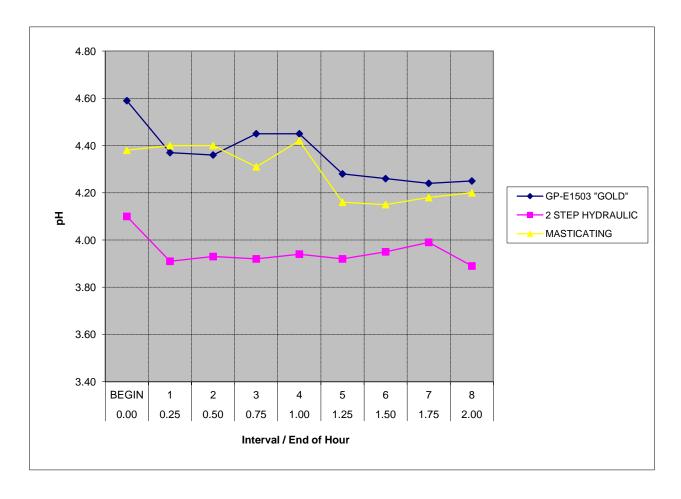
CYCLE: D

ITEM: APPLE JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

<u>рН</u>

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	4.59	4.37	4.36	4.45	4.45	4.28	4.26	4.24	4.25
2 STEP HYDRAULIC	4.10	3.91	3.93	3.92	3.94	3.92	3.95	3.99	3.89
MASTICATING	4.38	4.40	4.40	4.31	4.42	4.16	4.15	4.18	4.20



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STUDY DATA: FRESH JUICE STABILITY STUDY

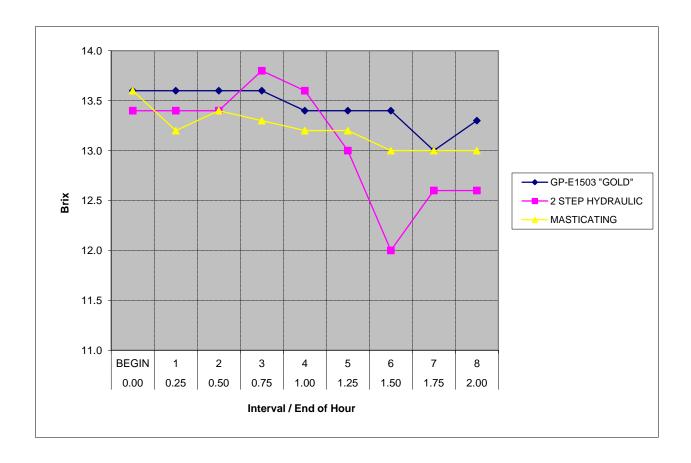
CYCLE: D

ITEM: APPLE JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

CARBOHYDRATE INDEX

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	13.6	13.6	13.6	13.6	13.4	13.4	13.4	13.0	13.3
2 STEP HYDRAULIC	13.4	13.4	13.4	13.8	13.6	13.0	12.0	12.6	12.6
MASTICATING	13.6	13.2	13.4	13.3	13.2	13.2	13.0	13.0	13.0



BIOlogical Research

Dr. E. Waselus, M.D.,Ph.D. Director

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Klamath Falls, OR 97601 Phone: 541-885-8804

STUDY DATA: FRESH JUICE STABILITY STUDY

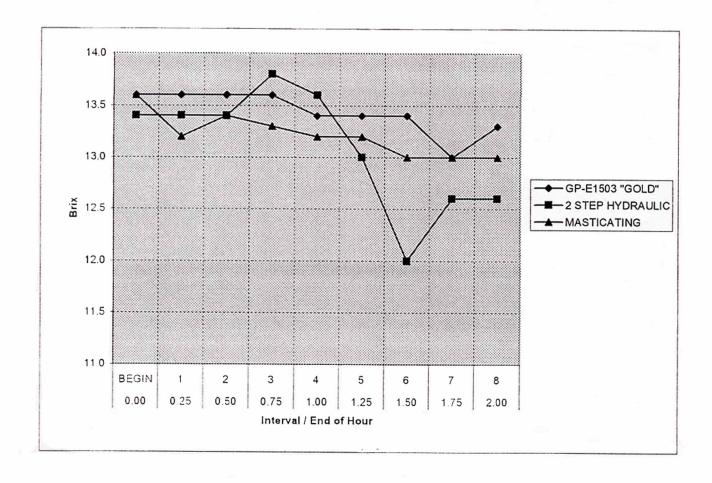
CYCLE: D

ITEM: APPLE JUICE

PARAMETERS: 3 JUICERS: GP-E1503 "GOLD", 2-STEP HYDRAULIC, MASTICATING

CARBOHYDRATE INDEX

END OF HOUR	0.00	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00
INTERVAL	BEGIN	1	2	3	4	5	6	7	8
GP-E1503 "GOLD"	13.6	13.6	13.6	13.6	13.4	13.4	13.4	13.0	13.3
2 STEP HYDRAULIC	13.4	13.4	13.4	13.8	13.6	13.0	12.0	12.6	12.6
MASTICATING	13.6	13.2	13.4	13.3	13.2	13.2	13.0	13.0	13.0



BIOlogical Research

Dr. E. Waselus, M.D., Ph.D.

Director

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ANAMOL LABORATORIES LTD.

83 CITATION DRIVE, UNIT 9 CONCORD, ONTARIO L4K 2S4

January 23, 1995

"GREEN JUICE" TEST RESULT

MINERAL CONTENT: mcg/ml

		* C		* C + P	* N	Green Power GPE-1503 "Gold"
Minerals						
Boron		0.7	1	8.0	0.83	0.89
Calcium		382	2	312	324	580
Chromium		0.00)5	0.022	ND	0.095
Cobalt		NE)	ND	ND	ND
Copper		1.3	1	1.4	1.37	1.17
Iron		3.2	1	2.7	2.5	6.58
Lithium		0.09	96	0.13	0.16	0.18
Magnesium		197	7	241	257	291
Manganese		2.4	ļ.	2.34	2.988	3.33
Molybdenum		0.05	52	0.049	0.037	0.065
Nickel		0.09	96	0.072	0.055	0.077
Phosphorus		36	5	300	313	331
Potassium		184	7	2258	2302	2236
Selenium		NE)	ND	ND	ND
Silicon		NE)	ND	ND	2.05
Sodium		658	3	759.6	838	948
Strontium		0.6	7	0.55	0.62	1.08
Vanadium		0.00	06	0.01	0.01	0.014
Zinc		1.8	7	2.18	2.29	2.92
VOLUME: cc		* 0		*C+P	* N	Green Power GPE-1503 "Gold"
GREEN JUICE		600)	780	790	800
VEGETABLE USE VEGETABLE	D: Celery	Kale	Parslay	Chard	Sunflower sprouts	Total
QUANTITY	300g	392g	64g	270g	160g	1,186g

^{*} C : Masticaing Juicer

Anamol Laboratories, LTD

George M. Tamari, Ph.D.

^{*} C + P : Masticating Juicer as a Grinder and Press

^{*} N : Two Step Hydraulic Press Juicer

^{*} Brand name has been left out from the original report. This report became available for use in U.S.A. by the courtesy of Teldon of Canada, Vancouver, B.C., Canada

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P.O. Box 1136 Klamath Falls, OR 97601

February 20, 1997

Tribest Corp. 12020 Woodruff Ave., Ste. C Downey, CA 90241

Dear Mr. Choi.

The following are the results of the Sound and Electromagnetic Field Testing.

Sound Magnitude Testing Procedure: Measure the volume of sound emitted:

1. 24 inches from the juicing machine, at ear level for a 5'6" person; 2.

15 feet from the juicing machine. Measurements are to be conducted on four different juicing machines: Champion, Acme, Norwalk and Green Power GPE-1503 (Gold Model). The recordation of data is to be based upon the collection of three readings at each location, using 90 degrees axes where the sound registers maximum. The scores to then be computed to get the resultant which is used as the recorded data. The testing site to be a sound specified room.

JUICING MACHINE		SOUND (d	lecibels)
		24"	15'
Acme		70	61
Champion	•••	66	62
Norwalk	•••	71	62
Green Power GPE-1503		61	51

Electromagnetic Field Testing Procedure: Measure the gauss emission at 6 inches from the juicing machines. Measurements are to be collected to four different juicing machines: Champion, Acme, Norwalk, Green Power GPE-1503 (Gold model). Three readings to be taken at the point of highest reading, then computed to determine the resultant to be recorded. The testing site to be a magnetically shielded room.

JUICING MACHINE	ELECTROMAGN	NETIC FIELD EMISSION	(milligauss)
Acme		113	
Champion		51	
Norwalk	•••	1253	
Green Power GPE-1503		21	

Submitted: 1. Chanteland, ND.

Dated: February 20, 1997

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Research Report

A Study for comparison of Hygienic Property, Efficiency on Extraction, Removal effect for Pesticides or Heavy metals with Green Power Juice Extractor

1994. 4. 12.

Korea Institute of Science & Technology Advanced Analysis Center

1. INTRODUCTION

Positive effects of vegetable juice on a disease caused by modern pollutants and stress were confirmed by many people. Unfortunately, there were some cases that Juice extractor generated lots of impurities or extraction ratio was not satisfactory. At the same time removal efficiency of pesticides or heavy metals with juice extractor were curious question among the users. Therefore, in this research we measured the concentration of impurities, Fe, Ni, Pb, Cr from the juice extractors including the efficiency of extraction at Kayle or Sincerncho. Furthermore the amount of residual pesticides or heavy metals in juice and the residues with Green Power Juice Extractor I, II were determined for better understanding the merits of extractors.

2. The purpose of experiment

The amount of heavy metals(Fe, Ni, Pb, Cr) pulverized from a grinding mill at juice extractor during operation without vegetables were measured and compared. Also, the extraction ratios of vegetables were determined with Kayle and Sincerncho squeezed through extractors. The residual level of pesticides(parathion, diazinon) on juice of grouts after addition of 5ppm pesticide were analyzed by GLC. As the similar procedure 50ppm heavy metals(Cd, Pb, Cr) were sprayed on vegetables for the measurement of removal effect by extractor.

3. METHOD

a. Measurement of impurities from extractor

Extractor was cleaned with distilled water and then dried after being operated at unloaded state for 10 minutes followed by another operation at unloaded state for 30 minutes. The extractor was washed out with 100mL distilled water for the determination of total Fe, Ni, Pb, Cr.

b. Measurement of Efficiency on Extractor

Five hundred gram of 3-5 cm fresh Kayle and Sincerncho were introduced through extractor.

Extraction efficiency is defined as weight percent of the juice over the total weight of output through extractor.

c. Determination of residual pesticides Five ppm diazinon and parathion were added to Kayle and

Sincerncho cut into 3-5cm in length. After passage of sample through extractors, the concentration of pesticides in juice and residues were analyzed.

d. Determination of residual heavy metals

The metal standard solutions(Cd,Pb,Cr) at 50ppm were added to Kayle and Sincerncho. After air drying for 1 day, 500gr of those were ground through juice extractor.

Heavy metals in juice and residue were analyzed by Atomic Absorption Spectrometer or ICP-AES.

4. RESULTS

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The results of experiment are listed as follow:

a. Measurement of Impurities from extractor

(unit: mg)

Juice Extractor	EXP.	Fe	Ni	Pb	Cr	cf
A Co. product	A-0	10, 95	1,54	<0.02	2.74	
B Co. product	B-0	4.08	0. 41	<0.02	1.04	
Green Power I	C-0	0,06	<0.01	<0.02	0.01	
Green Power II	D-0	0.08	<0.01	<0.02	0.02	

b. Determination of Extraction Efficiency (Dried for 1 day)

(sample:Kayle, unit: %)

Juice Extractor	EXP.	Residue	Juice	Total	Residue x100/tot.	Juice x 100/tot	Avg.
A Co.	A-1	14.2	75.3	89.5	15.9	84.1	
product	A-2	15.8	70.9	86.7	18, 2	81.8	•
	A-3	14.9	74.1	89.0	16, 7	83, 3	83, 1
B Co.	B-1	25.1	70, 1	95.2	26.4	73.6	
product	B-2	27.6	59.1	86.7	31.8	68.2	•
	B-3	30,9	61.3	92, 2	33, 5	66, 5	69.4
Green	Ç-1	7.5	78. 2	85.6	8.8	91.2	09.4
Power I	C-2	12.1	72.9	85.0	14.2	85.8	
	<u>C-3</u>	13.2	72.1	85, 3	15, 5	84.5	97.0
Green	D-1	7.7	81.5	89.2	8.6	91.4	87.2
Power II	D-2	12.6	75.3	87.9	14.3	85. 7	
	D-3	13.5	71.9	85.4	15, 8	84.2	87.1

(sample:Sincerncho, unit:x)

	T	7	1	(sample:Sincerncho, unit:%)						
Juice Extractor		Residue	Juice	Total	Residue x	Juice x100/tot.	Avg.			
A Co	A-1	10.7	74.2	84.9	12.6	87.4	 			
product	A-2	14.6	85.2	99.8	14.6	85. 4				
	A-3	13.3	84.6	97.9	13.6	86. 4	00.4			
B Co.	B-1	16.0	72.3	88.3	18.1	81.9	86. 4			
product	B-2	23.8	74.8	98.6	24.1	75.9	:			
	B-3	19.6	80.4	100	19.6	80.4				
Green	C-1	8.2	78.0	86, 2	9.5	90.5	79.4			
Power I	C-2	12.5	84.3	96, 8	12.9	87.1	•			
	C-3	13, 2	86.6	99.8	13.2					
Green	. D-1	9.2	77.3	86.5	10.6	86, 8 89, 4	88. <u>i</u>			
Power II	D-2	13.1	85.5	93.6	13.3	86.7				
	D-3	14.0	85.5	99.5	14.1	85. 9	87.3			
							07.3			

c. Determination of Residual Pesticides

(after addition of 5ppm pesticides)

(sample:Kayle ,Unit: ppm)

Juice	EXP.	Resid	lue	Juic	e	······································
Extractor	No.	diazinon	Parathion	diazinon	parathion	cf.
Λ´Co.	A-1	< 0.01	< 0.01	< 0.01	< 0.01	
product	A-2	8, 65	10, 81	2. 63	2.54	
p. 0000	A-3	10.30	12.10	2.31	2.67	
B Co.	B-1	< 0.01	< 0.01	< 0.01	< 0.01	
Product	B-2	7.24	8.27	2. 26	2.41	
	B-3	6, 69	8.44	2, 63	2.87	
Green	C-1	< 0.01	< 0.01	.< 0.01	< 0.01	
Power I	C-2	7.34	9.56	1,92	2.18	
	C-3	11.93	15, 08	1,95	2.11	
Green	D-1	< 0.01	< 0.01	< 0.01	< 0.01	
Power II	D-2	11.85	14.65	1.85	2, 23	
	D-3	12.43	15, 44	1.96	2.30	

^{*} Addition of average 5ppm pesticides

^{* 1:} blank

^{2,3: 5}ppm (parathion, diazinon) addition

(unit: ppm)

]	/ wire . hbm.)							
Juice Extractor	EXP. No.	Residu	е	Juio					
		diazinon	parathion	diazinon	parathion	cf.			
A Co.	A-1	<0.01	< 0.01	< 0.01	< 0.01				
product	A-2	14.3	17.24	2, 54	1 1				
product	A-3	16, 93	18.88	2, 18	2.82				
B Co.	B-1	<0.01	< 0.0i	< 0.01	2.34				
product	B-2	11.92	14, 35	3.00	< 0.01 3.24				
	B-3	11.43	14.02	3.14	1 1				
Green	C-1	<0.01	< 0.01	< 0.01	4.22 < 0.01				
Power I	C-2	15.28	17.59	2. 30	2.84				
C-3		15.74	18, 63	2, 14	3.06				
Green	D-1	<0.01	< 0.01	< 0, 01	< 0.01				
Power II	D-2	16.49	17.90	2. 43	1				
	D-3	13.65	15.86	1.82	3, 24 2, 62				

2. sample: Sincerncho

^{1.} The concentration of heavy metals were determined after addition of 5ppm standards(#2,3) or without standard(#1) followed by drying for 1 day before using extractors

d. Measurement of Residual Heavy Metals (Air drying for 1 day)

(sample : Kayle, unit : ppm)

	EXP.		Residue				Juice				
Juice	No.		сошролеnts					onents		ا ـ ا	
Extractor	·	Fe	Ni	Pb	Cr	Fe	Ni	Pb	Cr	cf.	
A Co.	A-1	30	2.3	< 2	3.1	24	2.1				
-Product	A-2	140	52	43	75	40	43	52	4.5		
	A-3	170	62	68	97	40	65	47	50	ĺ	
B Co.	B-1	21	1.4	< 2	1.1	29	4.0	5.9	78 3.2		
Product	B-2	130	66	52	. 80	44	46	56			
·	B-3 C-1	130	65	57	_ 76	44	44	53	46		
Green	C-2	23	1.8	< 2	1.2	12	⟨1,0	6.0	49 1.1		
Power I	C-3	120	46	44	62	44	39	51	40		
	D-1	180 25	69	56	100	52	46	57	46		
reen	D-2		2, 8	< 2	3, 2	10	⟨1,0	2.7	1.0		
Power II	D-3	160	66	45	91	42	41	53	40	·	
	υ-3	246	74	60	110	53	41	51	42		

1 : blank

2,3: air dried after 50ppm addition

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Juice EXP. Extractor No.		Residue					Juice				
			compon	ents		<u> </u>		onents		cf.	
<u> </u>		Fe	Ni	Pb	Cr	Fe	Ni		T		
A Co.	A-1	52	2.76	<1.0	3.98	22	1.2	Pb <1.0	Cr		
product	A-2	168	70	98.8	80.9	51	44	38	1.5		
	A-3 B-1	201 57	84	96.8	102	44	47	41	43	1	
- B Co.	B-2	119	3.94	<1.0	7.41	20	1.2	<1.0	1.9	 	
product	B-3	148	60	51.8	61.9	52	44	46	45	1	
Green .	C-1	38	1.05	77.4 <1.0	72.4	49	49	42	49		
Power I	C-2	182	67	110	1.1	15	0.45	<1.0	0.5		
rower 1	Ç-3	184	70	103	82.3	48	43	33	44		
Green	D-1	41	0.75	⟨1.0	91.0 0.62	47	46	38	47		
Power II	D-2	165	61	72.1	75.5	48	0.42	<1.0 .	0.5		
D-3	D-3	191	72	89.3	91.1	40 54	44	43	46		
						- 04	47	43	48	1	

1. The concentration of heavy metals were determined after addition of 50ppm standards(#2,3) or without standard(#1) followed by drying for 1 day before using extractors

2. sample: Sincerncho.