Supplementary File S2

Analytical certificates for the Solomon Islands assays cited in Chapter 2

Supplement to: Blythe, T., LaRose, D., & Bowman, J. (2026). Kava, Coffee and Chocolate: The Public Life of Three Drinks and the Future of a Pacific Crop (American Kava Association Technical White Paper No. 28, version 1.1). The Journal of American Kava. https://doi.org/10.5281/zenodo.24413577

This file reproduces the Supplementary Data of AKA Technical White Paper No. 29, whose item numbers it keeps. The paper cites:

- Items 1–7 Tahu: five lateral-root assays, peeled chips and unpeeled chips (2019–2021)
- Items 8–10 Feo: lateral roots and roots (2020–2022)
- Items 11–13 Temotu purple: peeled chips, chips and roots (2020–2022)
- Items 14–15 Premium Solomon mix, two samples (2022)
- Table S1 (page 3 of the reproduced file): every value transcribed from the certificates, with flavokavain totals, the flavokavain-to-kavalactone ratio and whether each assay met the Harmonized limits.

Items 16–21 (a Vanuatu two-day lot, Kali ISA blends, a Fijian Waka lot, a Premium Papua lot and an archived buying-price post) belong to White Paper No. 29 and are not cited by the paper. Laboratory: Flora Research Laboratories, Grants Pass, Oregon. The Solomon Islands assays were supplied by Root of Happiness from its routine quality-control program.

© 2026 The Author(s). Open access under CC BY 4.0.

Supplementary Data: Analytical Certificates

The sixteen Solomon Islands and Vanuatu comparator assays, a commercial lot of Madang peeled chips, the two blends of Kali ISA with Fijian Waka and the Waka lot underlying “ISA Grade: Chemotype Codes, Flavokavains and a Third Category for Kava”, with a consolidated data table, derived values and transcribed reference data

---

Companion to: American Kava Association Technical White Paper No. 29, version 0.9 (draft), November 2026

Author: Tyler Blythe — American Kava Association, Las Vegas, Nevada, USA; Root of Happiness, California, USA

Correspondence: admin@americankavaassociation.org **Laboratory:** Flora Research Laboratories, Grants Pass, Oregon

Contents: 16 Solomon Islands and Vanuatu comparator assays of 15 lots, 2019–2022 (items 1–16); 2 blends of the July 2024 Kali ISA lateral roots with Fijian Waka (items 17 and 18) and the Fijian Waka lot (item 19), 2024; a commercial lot of Madang peeled chips sold as Premium Papua Kava, 2021 (item 20); an archived copy of the Kubonitu Holding buying-price post (item 21); reference profiles of Tahu, Feo and Palisi from the 2015 ACP-EU kava report, cited by page (Section S4). Derived values are also provided as Supplementary File S5 (.xlsx). The Papuan, Merauke, Kali ISA, Kali Hiwa and Hiwa certificates, the HPTLC identification and the Paʻauilo Isa and Waʻa Waʻa comparator certificates are reproduced in the Supplementary Data of the companion paper, White Paper No. 26, version 2.0 (https://doi.org/10.5281/zenodo.24330977), and are not repeated here.

How to read this supplement

Section S1 indexes the certificates with the page each begins on. Section S2 is the consolidated data table (Table S1): every analyte value transcribed from the certificates, with the kavalactone chemotype code, flavokavain ratios, the two Harmonized flavokavain limits and the American Kava Association status derived from them, which are not laboratory-reported; it is followed by supplementary notes (S2.2), including a linear-mixing check of the blends. Section S3 reproduces the certificates as issued, in the order of Table 1 of the paper, and the archived Kubonitu Holding post. Section S4 transcribes the 2015 ACP-EU profiles of Tahu, Feo and Palisi used in Tables 1 and 2 of the paper.

The 2019–2021 comparator jobs (J19-1031-F, J20-0610-G, J20-0911-E and J21-0125-B, the last of which also holds the Premium Papua lot) use the laboratory’s HPLC-UV method of that period, reporting the six kavalactones and flavokavains A, B and C as the average of duplicate assays on an as-is basis; their certificates are reproduced from scanned images. The 2022 job (J22-0516-F) and the 2024 blend and Waka jobs (J24-0805-E and J24-0520-E) use HPLC-QNT-KAVA2, the single-laboratory-validated method of Liu et al. (2018), whose certificates state no basis; the method as published reports a dry-weight basis. FK/KL and K/FKB, as ratios, do not depend on basis. Section 2.2 of the paper sets out what the differences in method and basis do and do not permit.

S1. Index of certificates

#	Sample (as in Table 1 of the paper)	Sample as identified on the certificate	Job	FRL sample ID	Pages	Page
1	Tahu, lateral roots (SSC 2), 2019	SSC 2 Kava Powder	J19-1031-F	191031029	1 p	6
2	Tahu, lateral roots (MK100820), 2020	Sol Tahu Laterals MK100820 Kava Root Powder	J20-0911-E	200911025	1 p	7
3	Tahu, lateral roots (ML100820), 2020	Sol Tahu Laterals ML100820 Kava Root Powder	J20-0911-E	200911026	1 p	8
4	Tahu, lateral roots (YS100820), 2020	Sol Tahu Laterals YS100820 Kava Root Powder	J20-0911-E	200911027	1 p	9
5	Tahu, peeled chips, 2020	Sol Tahu Peeled Chips Kava Root Powder	J20-0911-E	200911023	1 p	10
6	Tahu, unpeeled chips (YS100820), 2020	Sol Tahu Unpeeled Chips YS100820 Kava Root Powder	J20-0911-E	200911028	1 p	11
7	Tahu, lateral roots (TS 1022R), 2021	TS1022R Powered Kava Matrix TS	J21-0125-B	210125025	1 p	12
8	Feo, lateral roots (WS100820), 2020	Sol Feo Laterals WS100820 Kava Root Powder	J20-0911-E	200911024	1 p	13
9	Feo, roots (R2), 2022	SK-R051222 / Feo R2	J22-0516-F	220516024-1-01	1 p	14
10	Feo, roots (Ysabel), 2022	SK-R051222 / Feo Ysabel Roots	J22-0516-F	220516025-1-01	1 p	15
11	Temotu purple, peeled chips, 2020	Temo Purple Peeled Chips Kava Root Powder	J20-0911-E	200911020	1 p	16
12	Temotu purple, chips, 2022	SK-R051222 / Temo Purple Chips	J22-0516-F	220516026-1-01	1 p	17
13	Temotu purple, roots, 2022	SK-R051222 / Temo Purple Roots	J22-0516-F	220516027-1-01	1 p	18
14	Premium Solomon mix, sample 1 (SK-R051222), 2022	SK-R051222 / Premium Solomon	J22-0516-F	220516020-1-02	1 p	19
15	Premium Solomon mix, sample 2 (SK-F051222), 2022	SK-F051222 / Premium Solomon	J22-0516-F	220516021-1-02	1 p	20
16	Two-day, sold as “Tudei True Kava” (TK20200114A), 2020	TK20200114A Tudei True Kava (Green Bag)	J20-0610-G	200610025-1	1 p	21
17	Kali ISA lateral roots (July 2024) : Fijian Waka, 50% : 50%	50% Kali ISA 113f lats 50% Waka	J24-0805-E	240805018-1-01	1 p	22
18	Kali ISA lateral roots (July 2024) : Fijian Waka, 33% : 66%	33% Kali ISA 113f lats 66% Waka	J24-0805-E	240805019-1-01	1 p	23
19	Fijian Waka, Superior Fijian lateral roots (SF-ROH0516)	Lot#SF-ROH0516 / Superior Fijian	J24-0520-E	240520008-2-03	1 p	24
20	Premium Papua Kava, Madang peeled chips, commercial lot (PP-R102820/2), by the author’s record	PP-R102820/2 Premium Papua Kava	J21-0125-B	210125022	1 p	25
21	Kubonitu Holding buying-price post, 24 August 2026 (archived copy; cited in Section 3.1 of the paper; not an assay)	—	—	—	1 p	26
S4	Reference data: Tahu, Feo and Palisi profiles transcribed from the 2015 ACP-EU kava report, Annex 6, with page references (Table S2)	—	—	—	1 p	27

Items 1–16 are the comparator assays of Tables 1 and 2 of the paper, in the order of Table 1; SSC 2 is Tahu lateral roots by the author’s record, and Temotu purple is labeled “Temo Purple” on its certificates. Items 1–8 and 11 (J19-1031-F, J20-0911-E and J21-0125-B) and item 16 (J20-0610-G) are scanned images of the certificates as issued. Items 17 and 18 are the blends, labeled on the certificates “50% Kali ISA 113f lats 50% Waka” and “33% Kali ISA 113f lats 66% Waka”; their Kali ISA input is the July 2024 lateral-root lot of the companion paper (its Supplementary Data, item 18), harvested in July 2024, which the labels’ “113f” refers to. Item 19 is the Fijian Waka input, assayed in job J24-0520-E. Item 20 is a commercial lot of peeled chips from Madang Province, Papua New Guinea, by the author’s record, sold as Premium Papua Kava and assayed in the same job as item 7; its certificate is a scanned image as issued. None of these is a study assay of the companion paper.

S2. Consolidated data table

Table S1. Kavalactone and flavokavain values as reported on the certificates (% w/w), with derived kavalactone chemotype codes, ratios and statuses.

#	Sample	Job	Basis	M	DHM	K	DHK	Y	DMY	Total KL	FKA	FKB	FKC	Total FK	Code	FK/KL %	K/FKB	Both limits met	AKA status
Solomon Islands varieties listed as noble, same laboratory, 2019–2022																			
1	Tahu, lateral roots (SSC 2), 2019	J19-1031-F	as is	1.54	1.24	2.61	3.68	1.24	1.10	11.4	0.444	0.948	0.193	1.59	246531*	13.95	2.75	No	Non-Beverage Grade
2	Tahu, lateral roots (MK100820), 2020	J20-0911-E	as is	2.12	1.87	3.25	4.73	1.87	1.40	15.2	0.605	1.11	0.138	1.85	246531*	12.17	2.93	No	Non-Beverage Grade
3	Tahu, lateral roots (ML100820), 2020	J20-0911-E	as is	1.73	1.48	3.26	4.36	1.60	1.33	13.8	0.631	1.27	0.139	2.04	246351	14.78	2.57	No	Non-Beverage Grade
4	Tahu, lateral roots (YS100820), 2020	J20-0911-E	as is	1.46	1.24	7.25	5.10	3.68	1.96	20.7	0.121	0.079	0.009	0.209	423165	1.01	91.77	Yes	Beverage Grade
5	Tahu, peeled chips, 2020	J20-0911-E	as is	0.621	0.876	1.17	2.30	0.579	0.433	5.98	0.327	0.598	0.071	0.996	245631	16.66	1.96	No	Non-Beverage Grade
6	Tahu, unpeeled chips (YS100820), 2020	J20-0911-E	as is	0.891	1.12	1.36	2.55	0.768	0.496	7.19	0.358	0.581	0.072	1.01	245631	14.05	2.34	No	Non-Beverage Grade
7	Tahu, lateral roots (TS 1022R), 2021	J21-0125-B	as is	2.24	2.67	2.69	3.92	2.29	1.30	15.1	0.570	0.795	0.106	1.47	245361	9.74	3.38	No	Non-Beverage Grade
8	Feo, lateral roots (WS100820), 2020	J20-0911-E	as is	1.02	0.936	4.89	4.27	2.21	1.36	14.7	0.198	0.360	0.037	0.595	423165	4.05	13.58	No	Non-Beverage Grade
9	Feo, roots (R2), 2022	J22-0516-F	dry weight	1.25	1.00	4.11	3.25	1.64	1.24	12.5	0.259	0.504	0.0536	0.817	423615	6.54	8.15	No	Non-Beverage Grade
10	Feo, roots (Ysabel), 2022	J22-0516-F	dry weight	1.53	1.57	4.35	4.22	2.09	1.40	15.2	0.280	0.533	0.0624	0.876	423561	5.76	8.16	No	Non-Beverage Grade
11	Temotu purple, peeled chips, 2020	J20-0911-E	as is	0.594	0.754	1.81	2.27	0.882	0.583	6.89	0.239	0.379	0.034	0.652	243561	9.46	4.78	No	Non-Beverage Grade
12	Temotu purple, chips, 2022	J22-0516-F	dry weight	0.314	0.468	1.92	2.06	1.06	0.588	6.41	0.116	0.0936	—	0.210	243156	3.28	20.51	Yes	Beverage Grade
13	Temotu purple, roots, 2022	J22-0516-F	dry weight	0.730	0.611	4.38	2.83	1.84	1.24	11.6	0.0781	0.0781	—	0.156	423165	1.34	56.08	Yes	Beverage Grade
Solomon Islands trade mix and Vanuatu two-day lot, same laboratory, 2020–2022																			
14	Premium Solomon mix, sample 1 (SK-R051222), 2022	J22-0516-F	dry weight	0.892	0.851	3.49	2.93	1.56	1.06	10.8	0.178	0.279	0.0311	0.488	423165	4.52	12.51	No	Non-Beverage Grade
15	Premium Solomon mix, sample 2 (SK-F051222), 2022	J22-0516-F	dry weight	0.897	0.859	3.53	2.95	1.59	1.07	10.9	0.179	0.280	0.0341	0.493	423165	4.52	12.61	No	Non-Beverage Grade
16	Two-day, sold as “Tudei True Kava” (TK20200114A), 2020	J20-0610-G	as is	1.22	1.41	1.36	2.27	0.969	0.608	7.84	0.268	0.392	0.040	0.700	254631	8.93	3.47	No	Non-Beverage Grade
Blends of the July 2024 Kali ISA lateral roots with Fijian Waka, and the Waka lot, same laboratory, 2024																			
17	Kali ISA lateral roots (July 2024) : Fijian Waka, 50% : 50%	J24-0805-E	as reported	1.11	1.02	1.45	1.72	0.740	0.468	6.50	0.0444	0.0803	0.0113	0.136	246531	2.09	18.06	Yes	Beverage Grade
18	Kali ISA lateral roots (July 2024) : Fijian Waka, 33% : 66%	J24-0805-E	as reported	1.21	0.959	1.62	1.58	0.880	0.510	6.76	0.0457	0.0702	0.0116	0.128	426531	1.89	23.08	Yes	Beverage Grade
19	Fijian Waka, Superior Fijian lateral roots (SF-ROH0516)	J24-0520-E	as reported	1.56	0.922	1.91	1.32	1.35	0.556	7.62	0.0571	0.0509	0.0164	0.124	463251	1.63	37.52	Yes	Beverage Grade
Papua New Guinea: commercial lot of Madang peeled chips, same laboratory, 2021																			
20	Premium Papua Kava, Madang peeled chips, commercial lot (PP-R102820/2), by the	J21-0125-B	as is	1.04	1.90	1.04	2.52	0.631	0.293	7.42	0.098	0.080	0.026	0.204	254631†	2.75	13.00	Yes	ISA Grade

author's record

— = not detected at or above the method threshold or not reported; non-detects are treated as zero in totals, so totals for lots with flavokavain C not detected are effectively A + B. Derived columns, not laboratory-reported: code by ranking the six kavalactones in descending concentration under the fixed numbering 1 DMY, 2 DHK, 3 Y, 4 K, 5 DHM, 6 M (Lebot & Lévesque, 1989); FK/KL as total flavokavains as a percentage of total kavalactones; K/FKB as kavain divided by flavokavain B. Both limits met: total flavokavains below 0.4% w/w and below 5% of total kavalactones (Kava Coalition, 2025, Sections 3.2 and 7). AKA status: Beverage Grade, kavain in one of the first three positions and dihydromethysticin in neither of the first two; ISA Grade, a code beginning 254 or 256; each with total flavokavains below 0.4% w/w and below 5% of total kavalactones; otherwise Non-Beverage Grade (American Kava Association, n.d.; Section 2.3 of the paper). * The code rests on exactly equal values (dihydromethysticin and yangonin, 1.24% in item 1 and 1.87% in item 2) and may equally be read 246351; the status is the same either way. † Kavain and methysticin are exactly equal (1.04% in item 20), so the code may equally be read 256431; it meets the ISA Grade condition either way. Every value is given, with the derivations as formulas, in Supplementary File S5 (sheets "Comparators" and "Statuses").

S2.2 Supplementary notes

(a) **Tahu lot codes.** The YS100820 lateral roots (item 4) and the unpeeled chips bearing the same lot code (item 6) carried flavokavains at 1.01% and 14.05% of kavalactones, under codes 423165 and 245631. The paper reports both and does not combine them.

(b) **Linear-mixing check for the blends.** Mixing the July 2024 Kali ISA lateral roots (companion paper, item 18) and the Fijian Waka (item 19) by mass at the labeled proportions, read as one-half and as one-third to two-thirds, predicts kavain 1.49% against 1.45% measured (+2.8%) and total flavokavains 0.133% against 0.136% (-2.6%) at half Waka; and kavain 1.63% against 1.62% (+0.6%) and total flavokavains 0.130% against 0.128% (+1.3%) at two-thirds Waka. Total kavalactones were overpredicted by 7.7% and 6.6%, and yangonin by 20.5% and 18.7%. The predicted half-Waka code is 246531, as measured; at two-thirds Waka the predicted kavain (1.630%) and dihydrokavain (1.633%) are within 3% of each other, as the measured kavain (1.62%) and dihydrokavain (1.58%) are, and the measured code is 426531. A code computed on a blend describes the blend, not either input (Section 3.4 of the paper).

S3. Certificates

Reproduced as issued by Flora Research Laboratories, in the order given in Section S1: items 1–16 on pages 6–21, the blends and the Fijian Waka (items 17–19) on pages 22–24, the Premium Papua lot (item 20) on page 25, and the archived Kubonitu Holding post (item 21) on page 26. Items 1–8, 11, 16 and 20 are reproduced from scanned images of the original certificates; the others are the laboratory's own PDF documents. The values transcribed from every certificate are in Table S1, and were checked against the certificates for this version.

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: November 18, 2019

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 191031029 JOB: J19-1031-F

CLIENT SAMPLE ID: SSC 2 Kava Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.54
Dihydromethysticin	1.24
Kavain	2.61
Dihydrokavain	3.68
Yangonin	1.24
Desmethoxyyangonin	1.10
Total Kavalactones	**11.4**

Flavokavins	*Result (% w/w)
Flavokavain C	0.193
Flavokavain A	0.444
Flavokavain B	0.948
Total Flavokavins	**1.59**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 11-18-19

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 11/18/19

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911025 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Tahu Laterals MK100820 Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	2.12
Dihydromethysticin	1.87
Kavain	3.25
Dihydrokavain	4.73
Yangonin	1.87
Desmethoxyyangonin	1.40
Total Kavalactones	**15.2**

Flavokavins	*Result (% w/w)
Flavokavain C	0.138
Flavokavain A	0.605
Flavokavain B	1.11
Total Flavokavins	**1.85**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approved By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911026 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Tahu Laterals ML100820 Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.73
Dihydromethysticin	1.48
Kavain	3.26
Dihydrokavain	4.36
Yangonin	1.60
Desmethoxyyangonin	1.33
Total Kavalactones	**13.8**

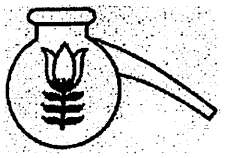
Flavokavins	*Result (% w/w)
Flavokavain C	0.139
Flavokavain A	0.631
Flavokavain B	1.27
Total Flavokavins	**2.04**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981



FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911027 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Tahu Laterals YS100820 Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.46
Dihydromethysticin	1.24
Kavain	7.25
Dihydrokavain	5.10
Yangonin	3.68
Desmethoxyyangonin	1.96
Total Kavalactones	**20.7**

Flavokavins	*Result (% w/w)
Flavokavain C	0.009
Flavokavain A	0.121
Flavokavain B	0.079
Total Flavokavins	**0.209**

*Reported on an as-is basis

Assayed/Reported By:

Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I

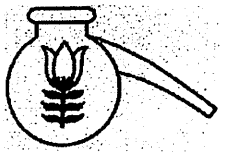
Date: 9-25-20

QC Approval By:

Pierce Prozy
Laboratory Assistant Manager

Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981



FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911023 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Tahu Peeled Chips Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	0.621
Dihydromethysticin	0.876
Kavain	1.17
Dihydrokavain	2.30
Yangonin	0.579
Desmethoxyyangonin	0.433
Total Kavalactones	**5.98**

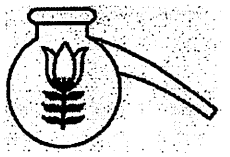
Flavokavins	*Result (% w/w)
Flavokavain C	0.071
Flavokavain A	0.327
Flavokavain B	0.598
Total Flavokavins	**0.996**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981



FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911028 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Tahu Unpeeled Chips YS100820 Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	0.891
Dihydromethysticin	1.12
Kavain	1.36
Dihydrokavain	2.55
Yangonin	0.768
Desmethoxyyangonin	0.496
Total Kavalactones	**7.19**

Flavokavins	*Result (% w/w)
Flavokavain C	0.072
Flavokavain A	0.358
Flavokavain B	0.581
Total Flavokavins	**1.01**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: February 23, 2021

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 210125025 JOB: J21-0125-B

CLIENT SAMPLE ID: TS1022R Powered Kava Matrix TS

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	2.24
Dihydromethysticin	2.67
Kavain	2.69
Dihydrokavain	3.92
Yangonin	2.29
Desmethoxyyangonin	1.30
Total Kavalactones	**15.1**

Flavokavins	*Result (% w/w)
Flavokavain C	0.106
Flavokavain A	0.570
Flavokavain B	0.795
Total Flavokavins	**1.47**

*Reported on an as-is basis

Assayed/Reported By:

Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I

Date: 2-23-21

QC Approval By:

Pierce Prozy
Laboratory Assistant Manager

Date: 02/23/21

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911024 JOB: J20-0911-E

CLIENT SAMPLE ID: Sol Feo Laterals WS100820 Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.02
Dihydromethysticin	0.936
Kavain	4.89
Dihydrokavain	4.27
Yangonin	2.21
Desmethoxyyangonin	1.36
Total Kavalactones	**14.7**

Flavokavins	*Result (% w/w)
Flavokavain C	0.037
Flavokavain A	0.198
Flavokavain B	0.360
Total Flavokavins	**0.595**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516024-1-01

CLIENT: Root of Happiness

SAMPLE ID: SK-R051222
Feo R2

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**1.25% (w/w)**
Dihydromethysticin	**Mean**	**1.00% (w/w)**
Kavain	**Mean**	**4.11% (w/w)**
Dihydrokavain	**Mean**	**3.25% (w/w)**
Yangonin	**Mean**	**1.64% (w/w)**
Desmethoxyyangonin	**Mean**	**1.24% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.259% (w/w)**
Flavokavain B	**Mean**	**0.504% (w/w)**
Flavokavain C	**Mean**	**0.0536% (w/w)**
Kavalactones, Total	**Mean**	**12.5% (w/w)**
Flavokavains, Total	**Mean**	**0.817% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516025-1-01

CLIENT: Root of Happiness

SAMPLE ID: SK-R051222
Feo Ysabel Roots

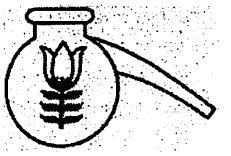
ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**1.53% (w/w)**
Dihydromethysticin	**Mean**	**1.57% (w/w)**
Kavain	**Mean**	**4.35% (w/w)**
Dihydrokavain	**Mean**	**4.22% (w/w)**
Yangonin	**Mean**	**2.09% (w/w)**
Desmethoxyyangonin	**Mean**	**1.40% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.280% (w/w)**
Flavokavain B	**Mean**	**0.533% (w/w)**
Flavokavain C	**Mean**	**0.0624% (w/w)**
Kavalactones, Total	**Mean**	**15.2% (w/w)**
Flavokavains, Total	**Mean**	**0.876% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981



FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: September 25, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200911020 JOB: J20-0911-E

CLIENT SAMPLE ID: Temo Purple Peeled Chips Kava Root Powder

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	0.594
Dihydromethysticin	0.754
Kavain	1.81
Dihydrokavain	2.27
Yangonin	0.882
Desmethoxyyangonin	0.583
Total Kavalactones	**6.89**

Flavokavins	*Result (% w/w)
Flavokavain C	0.034
Flavokavain A	0.239
Flavokavain B	0.379
Total Flavokavins	**0.652**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 9-25-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 09/25/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516026-1-01

CLIENT: Root of Happiness

SAMPLE ID: SK-R051222
Temo Purple Chips

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**0.314% (w/w)**
Dihydromethysticin	**Mean**	**0.468% (w/w)**
Kavain	**Mean**	**1.92% (w/w)**
Dihydrokavain	**Mean**	**2.06% (w/w)**
Yangonin	**Mean**	**1.06% (w/w)**
Desmethoxyyangonin	**Mean**	**0.588% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.116% (w/w)**
Flavokavain B	**Mean**	**0.0936% (w/w)**
Flavokavain C	**Mean**	**N/A**
Kavalactones, Total	**Mean**	**6.41% (w/w)**
Flavokavains, Total	**Mean**	**0.210% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516027-1-01

CLIENT: Root of Happiness

SAMPLE ID: SK-R051222
Temo Purple Roots

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**0.730% (w/w)**
Dihydromethysticin	**Mean**	**0.611% (w/w)**
Kavain	**Mean**	**4.38% (w/w)**
Dihydrokavain	**Mean**	**2.83% (w/w)**
Yangonin	**Mean**	**1.84% (w/w)**
Desmethoxyyangonin	**Mean**	**1.24% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.0781% (w/w)**
Flavokavain B	**Mean**	**0.0781% (w/w)**
Flavokavain C	**Mean**	**N/A**
Kavalactones, Total	**Mean**	**11.6% (w/w)**
Flavokavains, Total	**Mean**	**0.156% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516020-1-02

CLIENT: Root of Happiness

SAMPLE ID: SK-R051222
Premium Solomon

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**0.892% (w/w)**
Dihydromethysticin	**Mean**	**0.851% (w/w)**
Kavain	**Mean**	**3.49% (w/w)**
Dihydrokavain	**Mean**	**2.93% (w/w)**
Yangonin	**Mean**	**1.56% (w/w)**
Desmethoxyyangonin	**Mean**	**1.06% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.178% (w/w)**
Flavokavain B	**Mean**	**0.279% (w/w)**
Flavokavain C	**Mean**	**0.0311% (w/w)**
Kavalactones, Total	**Mean**	**10.8% (w/w)**
Flavokavains, Total	**Mean**	**0.488% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 1, 2022 **FRL JOB ID:** J22-0516-F **ALIQUOT ID:** 220516021-1-02

CLIENT: Root of Happiness

SAMPLE ID: SK-F051222
Premium Solomon

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**0.897% (w/w)**
Dihydromethysticin	**Mean**	**0.859% (w/w)**
Kavain	**Mean**	**3.53% (w/w)**
Dihydrokavain	**Mean**	**2.95% (w/w)**
Yangonin	**Mean**	**1.59% (w/w)**
Desmethoxyyangonin	**Mean**	**1.07% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.179% (w/w)**
Flavokavain B	**Mean**	**0.280% (w/w)**
Flavokavain C	**Mean**	**0.0341% (w/w)**
Kavalactones, Total	**Mean**	**10.9% (w/w)**
Flavokavains, Total	**Mean**	**0.493% (w/w)**

This document electronically signed by James Kababick on 6/1/2022; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: June 23, 2020

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 200610025-1 JOB: J20-0610-G

CLIENT SAMPLE ID: TK20200114A Tudei True Kava (Green Bag)

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.22
Dihydromethysticin	1.41
Kavain	1.36
Dihydrokavain	2.27
Yangonin	0.969
Desmethoxyyangonin	0.608
Total Kavalactones	**7.84**

Flavokavins	*Result (% w/w)
Flavokavain C	0.040
Flavokavain A	0.268
Flavokavain B	0.392
Total Flavokavins	**0.700**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 6-23-20

QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 06/23/20

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: August 20, 2024 **FRL JOB ID:** J24-0805-E **ALIQUOT ID:** 240805018-1-01

CLIENT: Root of Happiness

SAMPLE ID: 50% Kali ISA lats 50% Waka
50% Kali ISA 113f lats 50% Waka

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**1.11% (w/w)**
Dihydromethysticin	**Mean**	**1.02% (w/w)**
Kavain	**Mean**	**1.45% (w/w)**
Dihydrokavain	**Mean**	**1.72% (w/w)**
Yangonin	**Mean**	**0.740% (w/w)**
Desmethoxyyangonin	**Mean**	**0.468% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.0444% (w/w)**
Flavokavain B	**Mean**	**0.0803% (w/w)**
Flavokavain C	**Mean**	**0.0113% (w/w)**
Kavalactones, Total	**Mean**	**6.50% (w/w)**
Flavokavains, Total	**Mean**	**0.136% (w/w)**

This document electronically signed by James Kababick on 8/20/2024; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: August 20, 2024 **FRL JOB ID:** J24-0805-E **ALIQUOT ID:** 240805019-1-01

CLIENT: Root of Happiness

SAMPLE ID: 33% Kali ISA lats 66% Waka
33% Kali ISA 113f lats 66% Waka

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**1.21% (w/w)**
Dihydromethysticin	**Mean**	**0.959% (w/w)**
Kavain	**Mean**	**1.62% (w/w)**
Dihydrokavain	**Mean**	**1.58% (w/w)**
Yangonin	**Mean**	**0.880% (w/w)**
Desmethoxyyangonin	**Mean**	**0.510% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.0457% (w/w)**
Flavokavain B	**Mean**	**0.0702% (w/w)**
Flavokavain C	**Mean**	**0.0116% (w/w)**
Kavalactones, Total	**Mean**	**6.76% (w/w)**
Flavokavains, Total	**Mean**	**0.128% (w/w)**

This document electronically signed by James Kababick on 8/20/2024; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES

Analytical Report

DATE: June 7, 2024 **FRL JOB ID:** J24-0520-E **ALIQUOT ID:** 240520008-2-03

CLIENT: Root of Happiness

SAMPLE ID: Lot#SF-ROH0516
Superior Fijian

ANALYSIS: Quantitative analysis of total kavalactones and flavokavains by High Performance Liquid Chromatography with Ultraviolet Detection (HPLC-QNT-KAVA2)

RESULTS:

		Result
Kavalactone		
Methysticin	**Mean**	**1.56% (w/w)**
Dihydromethysticin	**Mean**	**0.922% (w/w)**
Kavain	**Mean**	**1.91% (w/w)**
Dihydrokavain	**Mean**	**1.32% (w/w)**
Yangonin	**Mean**	**1.35% (w/w)**
Desmethoxyyangonin	**Mean**	**0.556% (w/w)**
Flavokavain		
Flavokavain A	**Mean**	**0.0571% (w/w)**
Flavokavain B	**Mean**	**0.0509% (w/w)**
Flavokavain C	**Mean**	**0.0164% (w/w)**
Kavalactones, Total	**Mean**	**7.62% (w/w)**
Flavokavains, Total	**Mean**	**0.124% (w/w)**

This document electronically signed by James Kababick on 6/7/2024; Signature on file.

1000 SE M St., Suite B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

FLORA RESEARCH LABORATORIES, LLC

ANALYTICAL REPORT

DATE: February 23, 2021

REPORT: Quantitative Analysis of Total Kavalactones and Total Flavokavins in Kava Root or Extract by High Performance Liquid Chromatography-UV

CLIENT: Root of Happiness

FRL SAMPLE ID: 210125022 JOB: J21-0125-B

CLIENT SAMPLE ID: PP-R102820/2 Premium Papua Kava

ANALYSIS DATA: Average of Duplicate Assays

Kavalactones	*Result (% w/w)
Methysticin	1.04
Dihydromethysticin	1.90
Kavain	1.04
Dihydrokavain	2.52
Yangonin	0.631
Desmethoxyyangonin	0.293
Total Kavalactones	**7.42**

Flavokavins	*Result (% w/w)
Flavokavain C	0.026
Flavokavain A	0.098
Flavokavain B	0.080
Total Flavokavins	**0.204**

*Reported on an as-is basis

Assayed/Reported By:
Reine Bravo,
Chemical Hygiene & Safety Officer
Scientist I
Date: 2-23-21

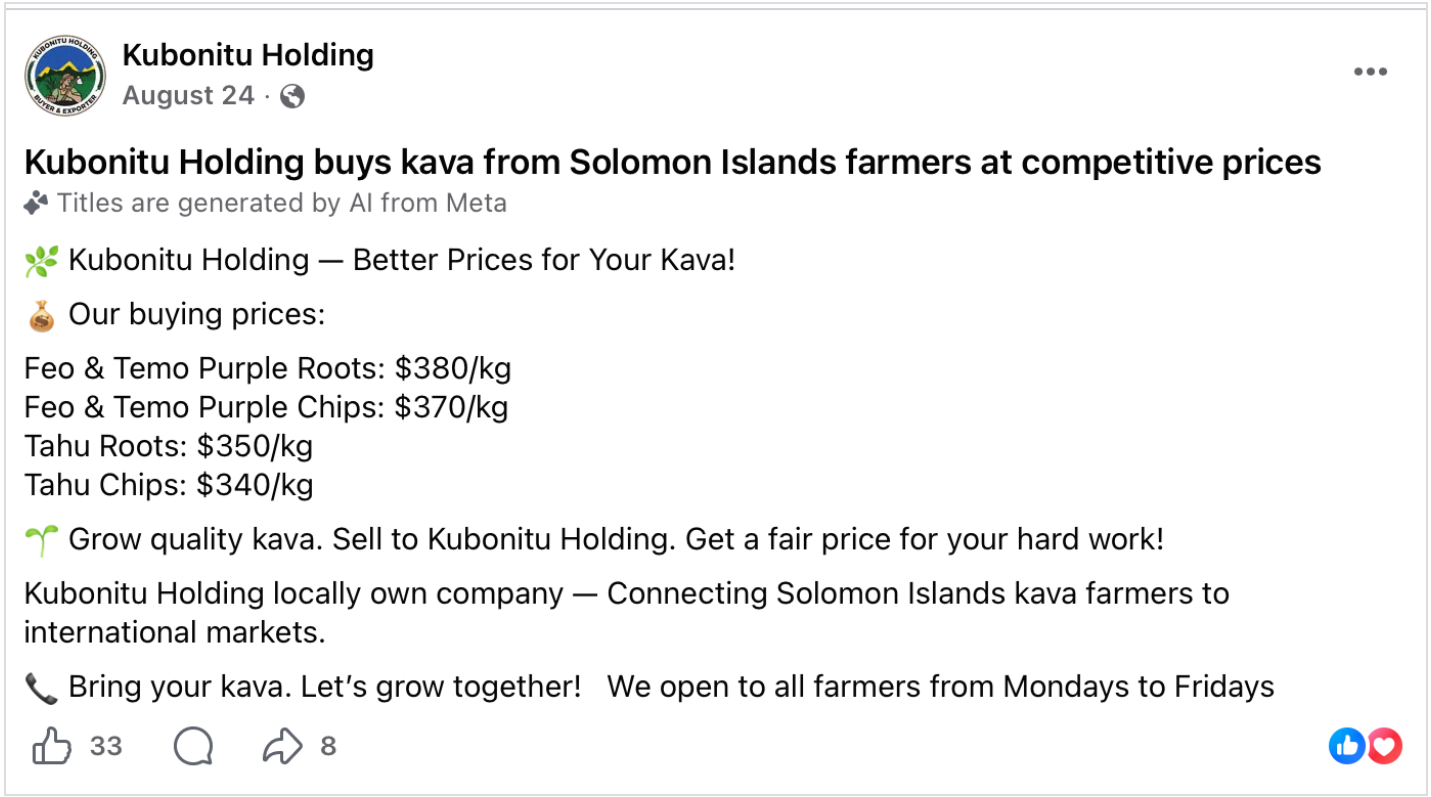
QC Approval By:
Pierce Prozy
Laboratory Assistant Manager
Date: 02/23/21

1000 SE M Street Unit B, Grants Pass, Oregon 97526
Ph: (541) 472-0980 Fax: (541) 472-0981

Kubonitu Holding buying prices

Archived copy of a public Facebook post by Kubonitu Holding, a Solomon Islands kava buyer and exporter, dated August 24 (2026), as captured by the author on November 1, 2026. Prices are in Solomon Islands dollars (SBD) per kilogram. Source: https://www.facebook.com/61583412757368/posts/-kubonitu-holding-better-prices-for-your-kava-our-buying-pricesfeo-temo-purple-r/122140942995113758/

The post lists Feo and Temotu purple roots at SBD 380/kg and chips at SBD 370/kg, and Tahu roots at SBD 350/kg and chips at SBD 340/kg.



Kubonitu Holding
August 24 ·

Kubonitu Holding buys kava from Solomon Islands farmers at competitive prices

Titles are generated by AI from Meta

🌿 Kubonitu Holding — Better Prices for Your Kava!

💰 Our buying prices:

Feo & Temo Purple Roots: $380/kg
Feo & Temo Purple Chips: $370/kg
Tahu Roots: $350/kg
Tahu Chips: $340/kg

🌱 Grow quality kava. Sell to Kubonitu Holding. Get a fair price for your hard work!

Kubonitu Holding locally own company — Connecting Solomon Islands kava farmers to international markets.

📞 Bring your kava. Let's grow together! We open to all farmers from Mondays to Fridays

33 8

S4. Reference data: Tahu, Feo and Palisi in the 2015 ACP-EU kava report

Source. FratiniVergano – European Lawyers (2015). Scientific and legal assistance for the development of a quality and safety standard for kava production and trade in the Pacific region: Final report (ACP-EU TBT Programme, REG/FED/022-667, Project code 042/14), Annex 6, Analytical results from the variety screening project (HPLC, Berghof Analytik, Tübingen). The report is cited by page and not reproduced.

Table S2. Solomon Islands and Vanuatu profiles from FratiniVergano (2015), Annexes 6.1.6, 6.4.1 and 6.4.2, % of dry matter as printed, with derived values as in Table 1 of the paper.

Sample	Origin	Annex section and page	M	DHM	K	DHK	Y	DMY	Total KL	FKA	FKB	Total FK (A+B)	Printed FKB/K×100	Code	FK/KL %	K/FKB	Both limits met	AKA status
Tahu, roots (So-3)	Solomon Islands (Isabel)	Annex 6.4.2, p. 28	1.33	1.14	2.78	2.86	1.93	1.04	11.07	0.47	0.78	1.25	27.89	243651	11.29	3.59	No	Non-Beverage Grade
Tahu, peeled chips (So-4)	Solomon Islands (Isabel)	Annex 6.4.2, p. 28	0.60	0.74	1.04	1.57	0.61	0.38	4.94	0.24	0.38	0.62	36.64	245361	12.55	2.73	No	Non-Beverage Grade
Feo, roots (So-1)	Solomon Islands (Isabel)	Annex 6.4.1, p. 27	0.73	0.56	3.82	2.38	1.80	0.99	10.29	0.07	0.05	0.12	1.35	423165	1.17	74.07	Yes	Beverage Grade
Feo, peeled chips (So-2)	Solomon Islands (Isabel)	Annex 6.4.1, p. 27	0.35	0.43	2.03	1.95	0.98	0.54	6.27	0.10	0.08	0.18	3.87	423156	2.87	25.84	Yes	Beverage Grade
Palisi, roots (Va-55)	Vanuatu (Santo)	Annex 6.1.6, p. 7	1.15	1.05	1.69	2.98	1.82	0.86	9.54	0.39	0.76	1.15	44.6	234651	12.05	2.24	No	Non-Beverage Grade
Palisi, roots (Va-57)	Vanuatu (Santo)	Annex 6.1.6, p. 7	1.51	1.70	1.92	6.99	1.39	0.99	14.51	1.68	2.24	3.91	116.67	245631	26.95	0.86	No	Non-Beverage Grade
Palisi, peeled chips (Va-58)	Vanuatu (Santo)	Annex 6.1.6, p. 7	0.60	0.74	0.82	1.78	0.88	0.39	5.20	0.28	0.41	0.69	50.59	234561	13.27	1.98	No	Non-Beverage Grade
Palisi, peeled chips (Va-60)	Vanuatu (Santo)	Annex 6.1.6, p. 7	0.62	1.03	0.67	3.49	0.57	0.38	6.75	0.99	0.95	1.94	141.79	254631	28.74	0.71	No	Non-Beverage Grade

The report analyzed Tahu as two-day kava, heading its annex results “Two-day kava; = Palisi” (Section 2.4.4 and Annex 6.4.2), Feo as noble kava and Palisi as two-day kava under the Vanuatu Kava Act. Flavokavain C was not measured, so totals are A + B and the statuses are assessed on A + B. K/FKB is 100 divided by the printed FKB/K×100. The Hawaiian Isa profiles used in Table 5 of the paper are transcribed in Supplementary Table S5 of the companion paper.