

Supplementary Materials

Table of Abbreviations

Abbreviation	Scientific name	Common name
AAP	<i>Astrocaryum aculeatum</i> pulp	Kuru
AVP	<i>Astrocaryum vulgare</i> pulp	Awata
EOP	<i>Euterpe oleracea</i> pulp	Acai
OBP	<i>Oenocarpus bacaba</i> pulp	Turru
MFP	<i>Mauritia flexuosa</i> pulp	Ite
AAS	<i>Astrocaryum aculeatum</i> seed	Kuru
CGS	<i>Carapa guianensis</i> seed	Crabwood

Standardized logistic function (SLF)

(a) Sun-dried pulp

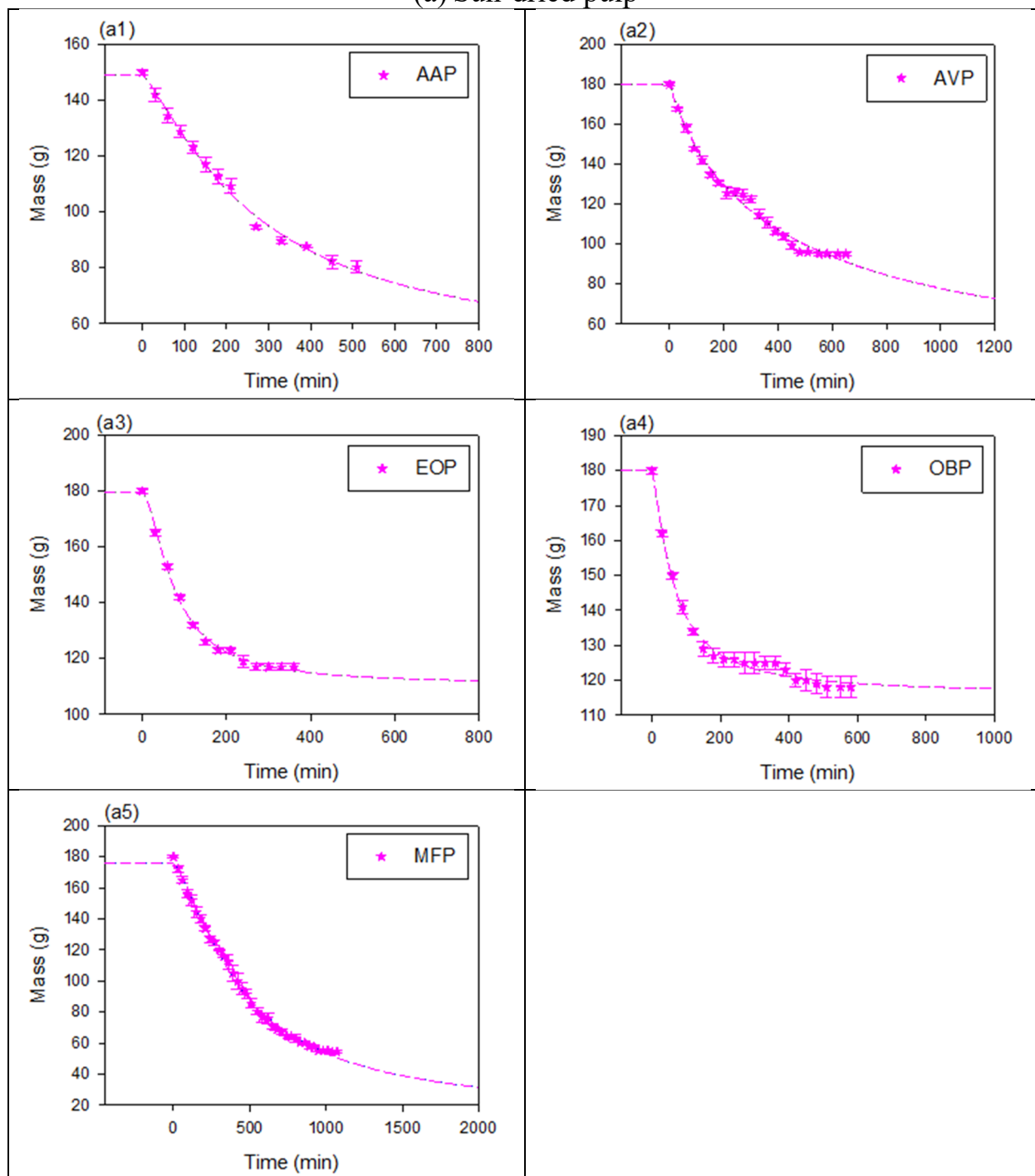


Figure S1. (a): Standardized logistic function (SLF) curve fittings of sun-dried AAP, AVP, EOP, OBP and MFP

(b) Shade-dried pulp

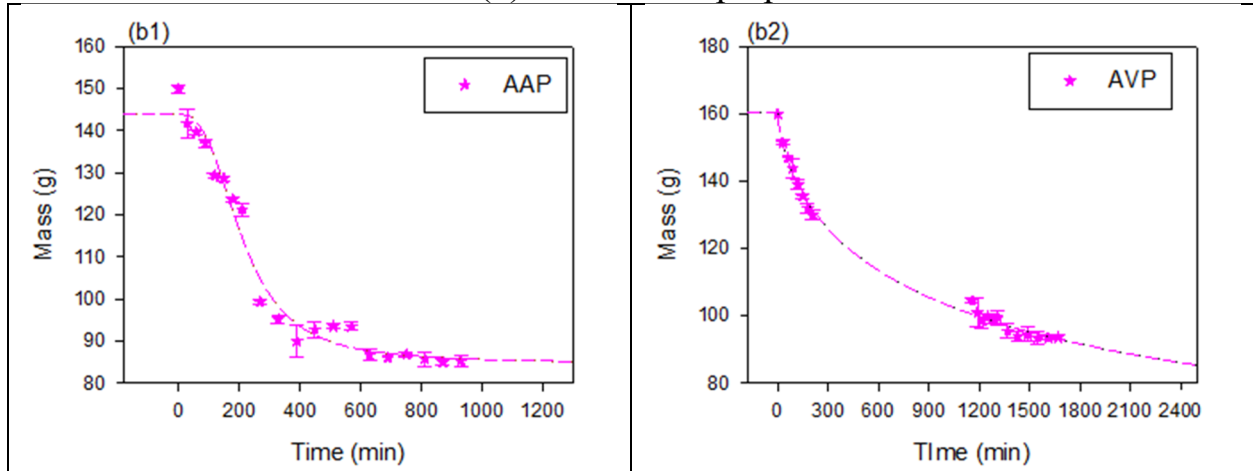


Figure S1. (b): Standardized logistic function (SLF) curve fittings of shade-dried AAP and AVP,

(c) Sun-dried seeds

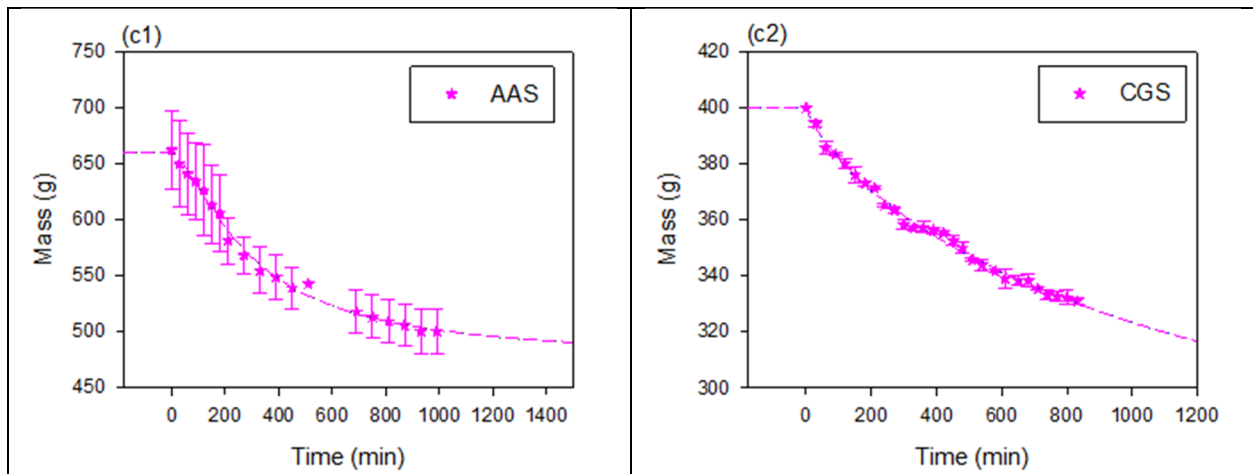


Figure S1. (c): Standardized logistic function (SLF) curve fittings for the sun-dried seeds of AAs and CGS

Modified Page (MP) model

(a) Sun-dried pulp

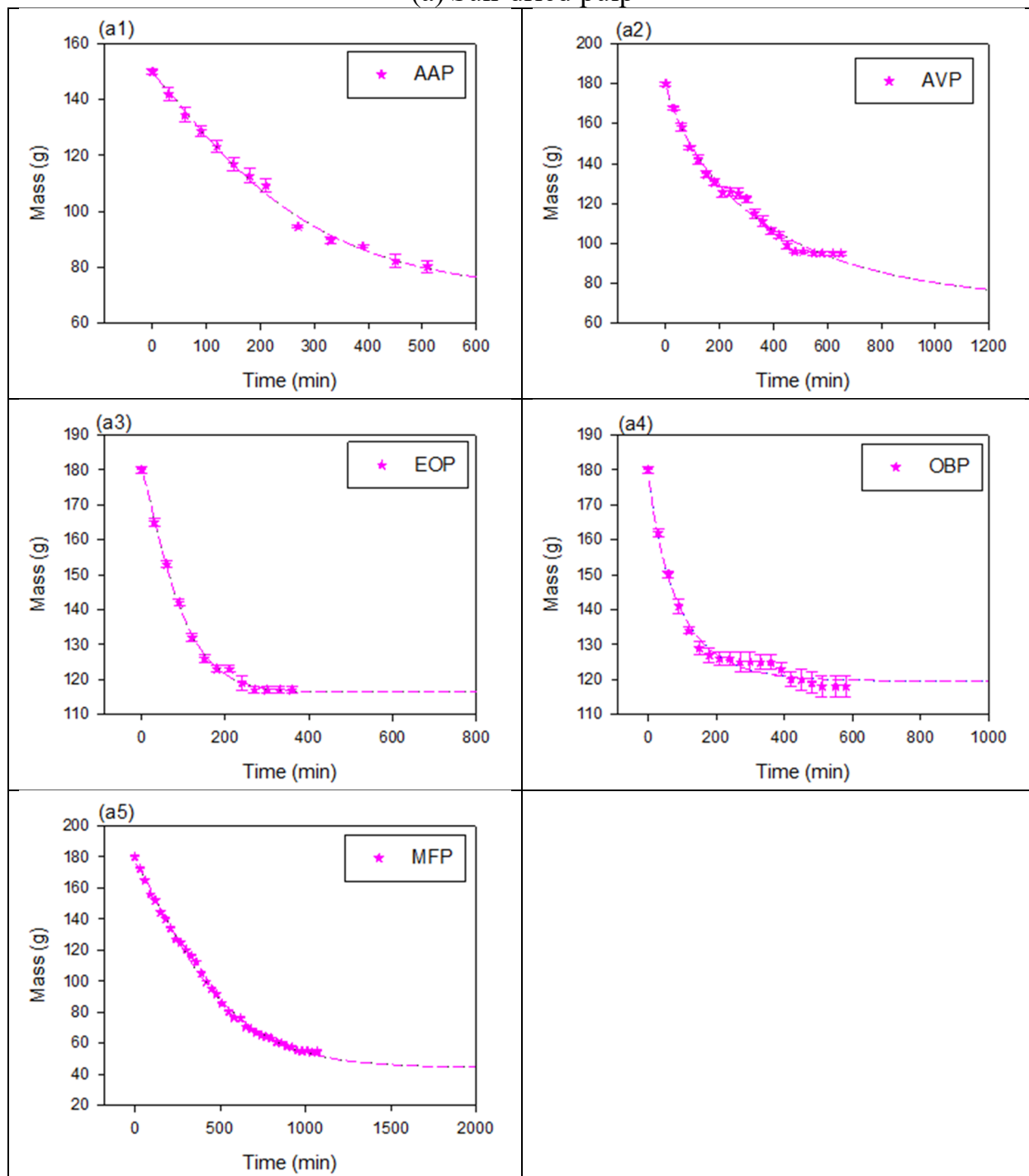


Figure S2. (a): Modified Page curve fittings of sun-dried AAP, AVP, EOP, OBP and MFP

(b) Shade dried pulp

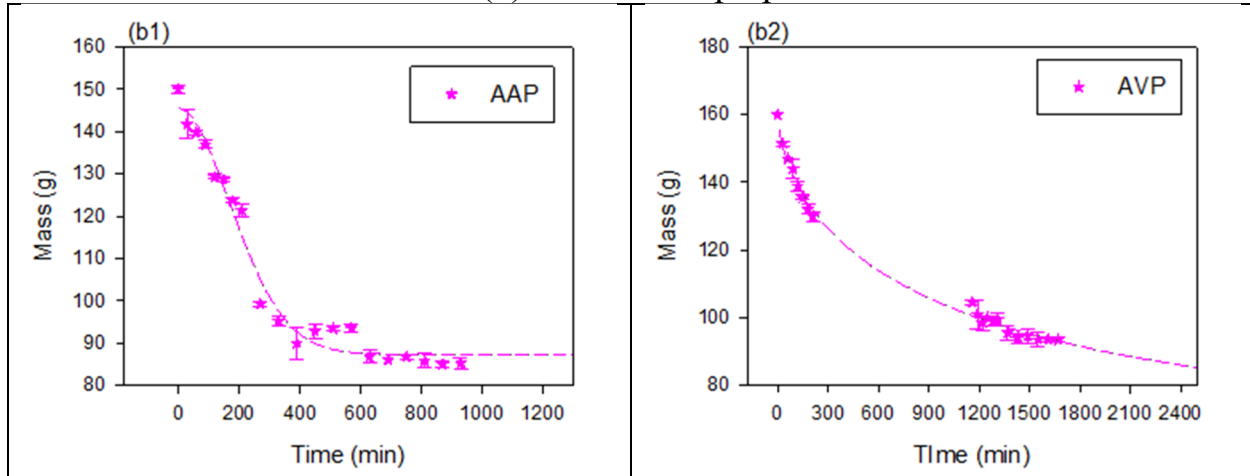


Figure S2. (b): Modified Page (MP) curve fittings of shade dried AAP and AVP

(c) Sun-dried seeds

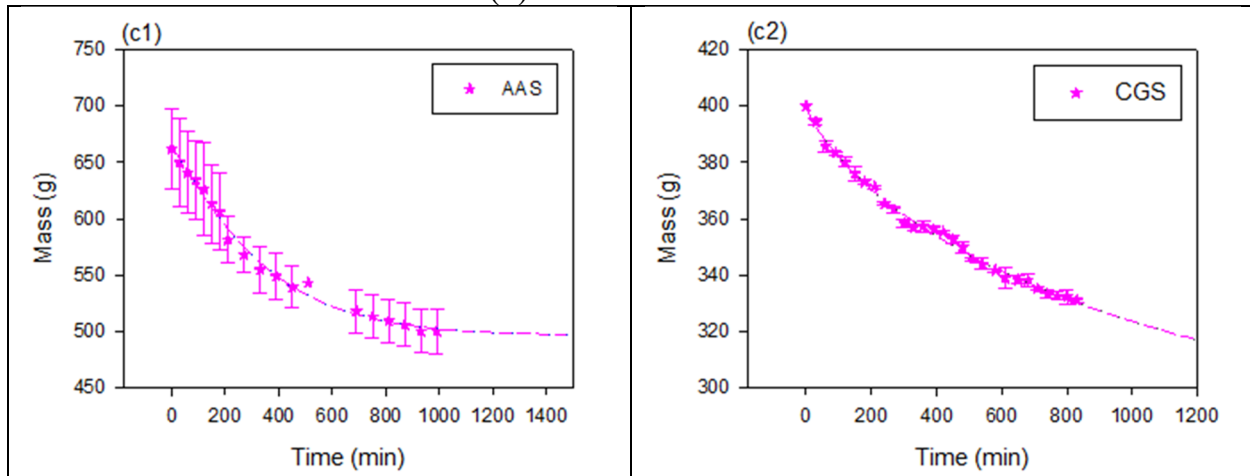


Figure S2. (c): Modified Page (MP) curve fittings of sun dried AAS and CGS

Lewis Model

(a) Sun-dried pulp

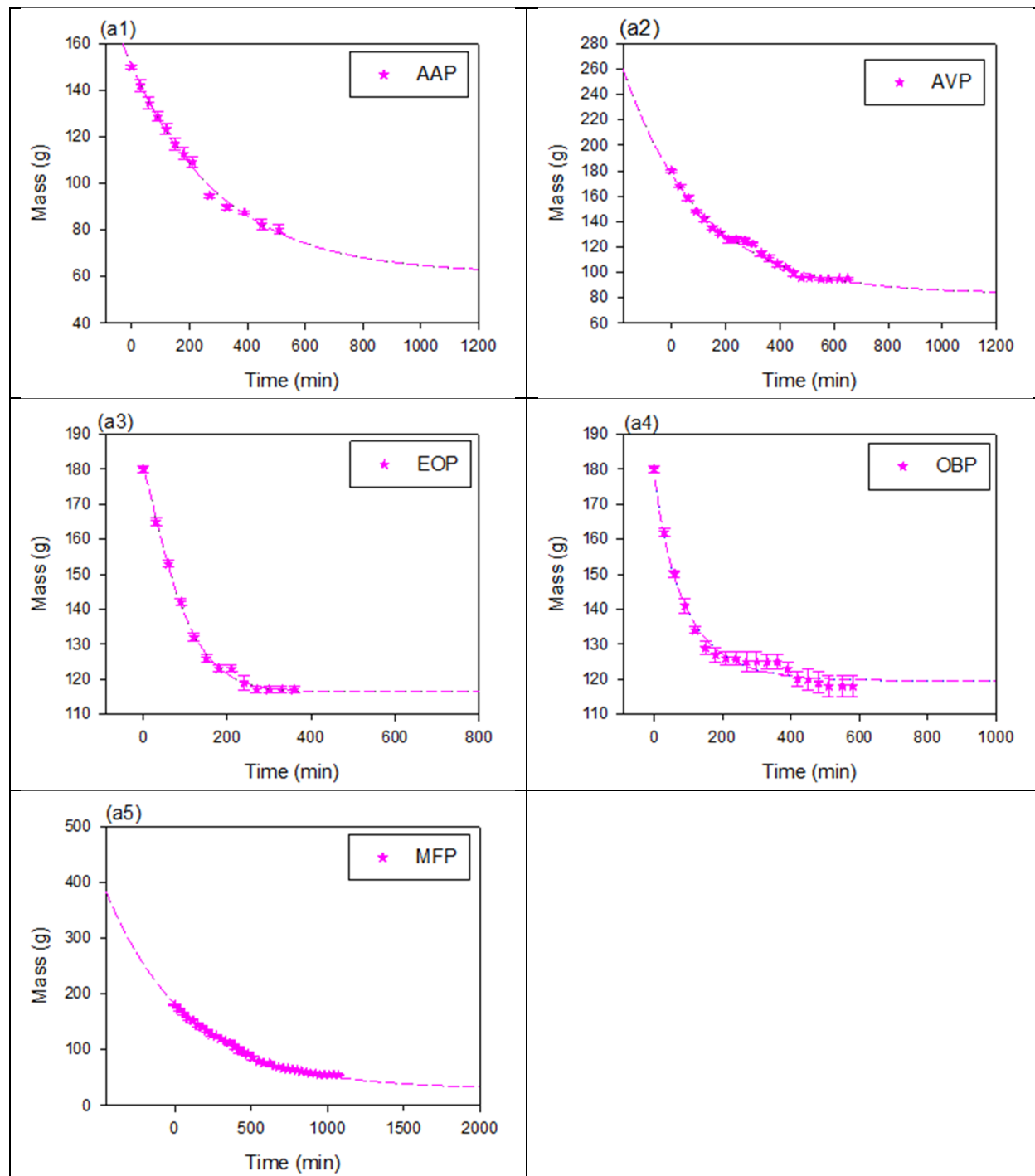


Figure S3. (a): Lewis model curve fittings of sun-dried AAP, AVP, EOP, OBP and MFP

(b) Shade-dried pulp

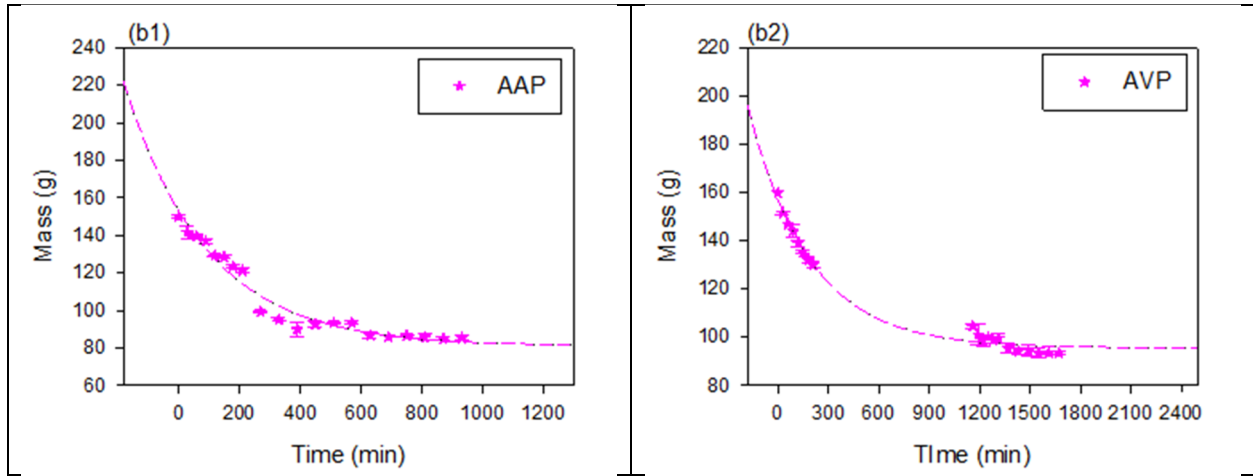


Figure S3. (b): Standardized logistic function (SLF) curve fittings for the sun-dried seeds of AAs and CGS

(C) Sun-dried seeds

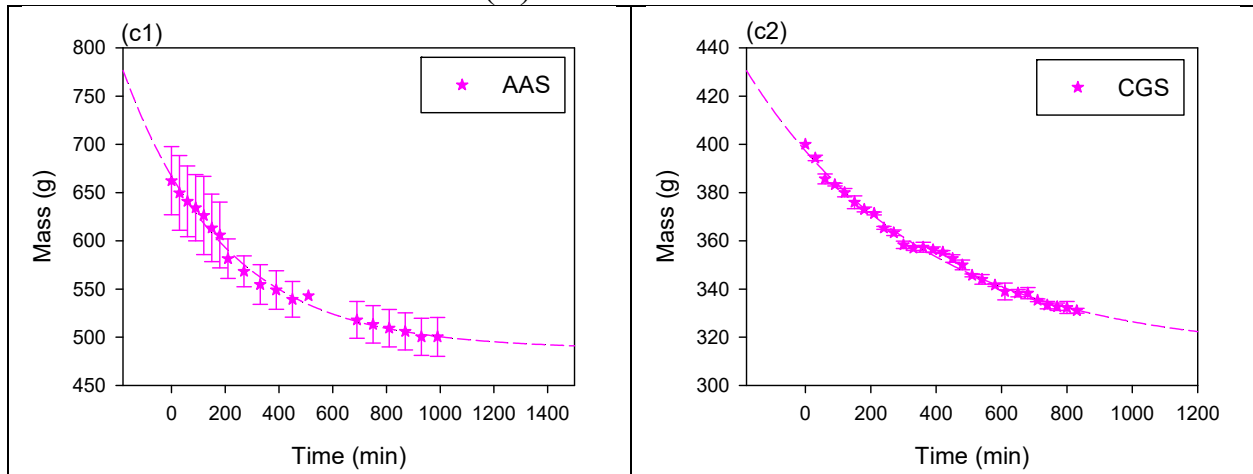


Figure S3. (c): Lewis model curve fittings of sun dried AAS and CGS

Raw Data-Sun dried pulp

Table S1:AAP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Time 4 (min)	Tray 4 (g)	Mean Mass (g)	Std dev
0	150	0	150	0	150	0	150	150.0	1.0
30	139	30	141	30	144	30	144	142.0	2.4
60	131	60	134	60	137	60	136	134.5	2.6
90	127	90	127	90	131	90	130	128.8	2.1
120	120	120	124	120	124	120	125	123.3	2.2
150	114	150	116	150	119	150	119	117.0	2.4
180	109	180	113	180	115	180	114	112.8	2.6
210	107	210	110	210	113	210	111	109.3	2.5
270	102	270	94	270	95	270	95	94.7	0.6
330	81	330	89	330	89	330	91	89.7	1.2
390	81	390	87	390	88	390	88	87.7	0.6
450	79	450	82	450	84	450	84	82.3	2.4
510	71	510	78	510	81	510	82	80.3	2.1

Table S2:AVP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
30	167	30	168	30	168	168.0	1.0
60	158	60	160	60	157	158.0	2.0
90	148	90	148	90	149	148.0	1.0
120	140	120	143	120	143	142.0	2.0
150	133	150	136	150	135	135.0	1.5
180	129	180	131	180	132	131.0	1.5
210	124	210	124	210	129	126.0	2.9
240	124	240	126	240	128	126.0	2.0
270	122	270	126	270	127	125.0	2.6
300	121	300	121	300	125	122.0	1.6
330	113	330	114	330	118	115.0	2.3
360	110	360	110	360	113	111.0	2.6
390	106	390	105	390	108	106.0	1.7
420	102	420	104	420	106	104.0	1.5
450	99	450	99	450	100	99.0	2.0
480	96	480	96	480	97	96.0	0.6
510	96	510	96	510	96	96.0	0.6
550	95	550	94	550	95	95.0	1.0
580	95	580	93	580	95	95.0	1.0
620	95	620	94	620	95	95.0	1.0
650	94	650	95	650	95	95.0	1.0

Table S3:EOP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
30	165	30	166	30	165	180	0.6
60	154	60	154	60	153	165	0.6
90	142	90	142	90	142	153	0.0
120	132	120	133	120	133	142	0.6
150	126	150	126	150	127	132	0.6
180	122	180	123	180	124	126	1.0
210	122	210	123	210	124	123	1.0
240	118	240	118	240	121	123	1.7
270	117	270	117	270	118	119	0.6
300	117	300	117	300	118	117	0.6
330	117	330	117	330	118	117	0.6
360	117	360	117	360	118	117	0.6
360	117	360	117	360	118	117	0.6

Table S4:MFP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
0	180	0	180	0	180	180.0	1.0
30	170	30	173	30	174	172.3	2.1
60	162	60	166	60	165	165.0	2.1
90	153	90	158	90	157	156.0	2.6
120	148	120	154	120	154	152.0	3.5
150	141	150	147	150	145	144.3	3.1
180	137	180	142	180	141	140.0	2.6
210	133	210	136	210	133	134.0	1.7
240	130	240	134	240	134	127.0	2.3
270	131	270	134	270	131	125.0	1.7
300	130	300	131	300	130	120.0	0.6
330	110	330	122	330	122	116.0	1.0
360	107	360	115	360	115	112.0	4.6
390	99	390	108	390	108	105.0	5.2
420	94	420	102	420	103	100.0	4.9
450	99	450	103	450	95	95.0	4.0
480	88	480	93	480	94	92.0	3.2
510	82	510	87	510	88	86.0	3.2
550	78	550	81	550	82	80.0	2.1
580	74	580	76	580	80	77.0	3.1
620	73	620	75	620	80	76.0	3.6
650	69	650	71	650	72	71.0	1.5
680	68	680	69	680	70	69.0	1.0

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
710	66	710	66	710	69	67.0	1.7
740	67	740	66	740	67	65.0	0.6
770	66	770	66	770	69	64.0	1.7
800	62	800	61	800	66	63.0	2.6
830	61	830	60	830	61	61.0	0.6
860	60	860	59	860	61	60.0	1.0
890	58	890	56	890	60	58.0	2.0
920	58	920	56	920	58	57.0	1.2
950	55	950	55	950	56	55.0	1.0
980	55	980	54	980	56	55.0	1.0
1010	55	1010	55	1010	56	55.0	1.0
1040	55	1040	53	1040	55	54.0	1.0
1070	54	1070	54	1070	56	55.0	1.0

Table S5:OBP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.de v
0	180	0	180	0	180	180	1
30	162	30	162	30	162	162	1
60	151	60	149	60	151	150	1
90	140	90	139	90	143	141	2
120	134	120	133	120	135	134	1
150	128	150	127	150	131	129	2
180	126	180	125	180	127	127	2
210	124	210	125	210	128	126	2
240	123	240	125	240	128	126	2
270	123	270	125	270	127	125	3
300	123	300	125	300	127	125	3
330	122	330	121	330	122	125	2
360	119	360	117	360	122	125	2
390	117	390	116	390	121	123	2
420	117	420	116	420	121	120	2
450	117	450	116	450	121	120	3
480	117	480	116	480	121	119	3
510	117	510	116	510	121	118	3
550	117	550	116	550	121	118	3
580	117	580	116	580	121	118	3

Raw Data-Shade-dried pulp

Table S6:AAP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
0	150	0	150	0	150	150.0	1.0
30	137	30	144	30	142	142.0	3.0
60	132	60	140	60	140	140.0	1.0
90	129	90	137	90	136	137.0	1.0
120	122	120	129	120	129	129.0	1.0
150	124	150	129	150	129	129.0	1.0
180	117	180	124	180	124	124.0	1.0
210	115	210	120	210	121	121.0	2.0
270	99	270	100	270	99	99.0	1.0
330	96	330	94	330	95	95.0	1.0
390	89	390	85	390	93	90.0	4.0
450	94	450	93	450	94	93.0	2.0
510	94	510	93	510	94	94.0	1.0
570	93	570	93	570	95	94.0	1.0
630	89	630	86	630	86	87.0	2.0
690	86	690	86	690	86	86.0	0.0
750	87	750	87	750	87	87.0	1.0
810	88	810	85	810	86	86.0	2.0
870	86	870	85	870	85	85.0	1.0
930	87	930	85	930	85	85.0	1.0

Table S7: AVP.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Mean Mass (g)	Std.dev
0	160	0	160	160.0	0.0
30	151	30	152	151.5	0.7
60	147	60	147	147.0	0.0
90	142	90	146	144.0	2.8
120	140	120	138	139.0	1.4
150	136	150	135	135.5	0.7
180	131	180	133	132.0	1.4
210	129	210	131	130.0	1.4
1160	105	1160	104	104.5	0.7
1190	98	1190	104	101.0	4.2
1220	97	1220	100	98.5	2.1
1250	100	1250	100	100.0	0.0
1280	98	1280	100	99.0	1.4
1310	98	1310	101	99.5	2.1
1370	94	1370	97	95.5	2.1

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Mean Mass (g)	Std.dev
1430	93	1430	95	94.0	1.4
1490	93	1490	96	94.5	2.1
1550	92	1550	95	93.5	2.1
1610	93	1610	94	93.5	0.7
1670	93	1670	94	93.5	0.7

Raw Data-Sun-dried seeds

Table S8: AAS.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
0	651	0	634	0	702	662.3	35.4
30	641	30	616	30	692	649.7	38.7
60	633	60	609	60	681	641.0	36.7
90	629	90	603	90	671	634.3	34.3
120	616	120	592	120	671	626.3	40.5
150	607	150	582	150	651	613.3	34.9
180	602	180	574	180	642	606.0	34.2
210	596	210	567	210	-	581.5	20.5
270	580	270	550	270	575	568.3	16.1
330	564	330	531	330	569	554.7	20.6
390	559	390	526	390	562	549.0	20.0
450	549	450	518	450	551	539.3	18.5
510	-	510	-	510	543	543.0	-
690	527	690	496	690	531	518.0	19.2
750	523	750	491	750	526	513.3	19.4
810	519	810	487	810	522	509.3	19.4
870	514	870	484	870	520	506.0	19.3
930	511	930	478	930	512	500.3	19.3
990	511	990	477	990	513	500.3	20.2

Table S9: CGS.

Time 1 (min)	Tray 1 (g)	Time 2 (min)	Tray 2 (g)	Time 3 (min)	Tray 3 (g)	Mean Mass (g)	Std.dev
0	400	0	400	0	400	400	0.0
30	395	30	393	30	395	394	1.0
60	388	60	385	60	384	386	2.0
90	383	90	384	90	383	383	1.0
120	381	120	378	120	381	380	2.0
150	377	150	378	150	373	376	3.0
180	374	180	373	180	372	373	1.0
210	371	210	371	210	372	371	1.0

240	365	240	366	240	365	365	1.0
270	364	270	364	270	362	363	1.0
300	357	300	360	300	358	358	2.0
330	355	330	356	330	358	357	1.0
360	355	360	358	360	359	357	2.0
390	355	390	357	390	357	356	1.0
420	355	420	355	420	356	355	1.0
450	354	450	351	450	353	353	2.0
480	350	480	348	480	352	350	2.0
510	345	510	346	510	346	346	1.0
540	342	540	344	540	346	344	2.0
580	341	580	342	580	342	342	1.0
610	337	610	337	610	343	339	3.0
650	337	650	338	650	340	338	2.0
680	337	680	337	680	341	338	2.0
710	335	710	336	710	335	335	1.0
740	335	740	332	740	333	333	2.0
770	333	770	334	770	331	333	2.0
800	330	800	332	800	335	332	3.0
830	330	830	331	830	332	331	1.0