

## LAMPIRAN

A.1 Data pengaruh energi dan waktu paparan gelombang mikro terhadap kehilangan berat bambu

**Tabel A.1 Pengaruh energi dan waktu paparan gelombang mikro terhadap kehilangan berat pada bambu kering**

No.	Energi (watt)	Waktu (menit)	Berat sebelum perlakuan microwave	Berat setelah perlakuan microwave	Berat kering	Water soluble content (%)
1	100	5	10.0801	10.083	9.4962	5.8197
		5	10.1792	10.1697	9.6	5.60194
		5	10.034	10.034	9.3667	6.65039
		10	10.3647	10.2857	9.7551	5.15862
		10	10.0446	9.9898	9.455	5.35346
		10	10.2846	10.1696	9.6753	4.86056
		15	10.1755	10.085	9.3825	6.96579
		15	10.0558	10.025	9.5098	5.13915
		15	10.1084	10.0773	9.5147	5.58284
		20	10.2854	10.2148	9.6742	5.29232
		20	10.0243	9.8933	9.3842	5.14591
		20	10.1764	10.0727	9.5547	5.14261
2	300	5	10.2666	10.1572	9.6587	4.90785
		5	10.1692	10.1634	9.5401	6.13279
		5	10.1909	10.1356	9.5378	5.89802
		10	10.1785	10.1785	9.5851	5.82994
		10	10.3395	10.3395	9.6938	6.24498
		10	10.0217	10.0217	9.407	6.13369
		15	10.4123	10.4123	9.8136	5.74993
		15	10.3694	10.3694	10.246	1.18715
		15	10.3263	10.3263	10.117	2.02977
		20	10.0558	10.0719	9.5327	5.35351
		20	10.2638	10.1997	9.5788	6.08743
		20	10.1325	10.0013	9.4465	5.54728
3	450	5	10.0178	10.0178	5.4964	45.1337
		5	10.2637	10.2637	9.7608	4.89979
		5	10.2628	10.2628	9.7874	4.63226
		10	10.2674	10.2674	9.6536	5.97814
		10	10.0716	10.0716	9.5955	4.72715
		10	10.1042	10.1042	9.5775	5.21268
		15	10.4719	10.4719	9.7844	6.56519
		15	10.4043	10.4043	5.8822	43.4638
		15	10.1295	10.1295	9.7094	4.14729

		20	10.1171	10.1171	7.1548	29.2801
		20	10.2145	10.2145	5.7023	44.1745
		20	10.1059	10.1059	5.9696	40.9296
4	600	5	10.2762	7.4268	6.2475	15.879
		5	10.161	6.5035	5.8413	10.1822
		5	10.3189	6.118	5.2915	13.5093
		10	10.176	5.794	6.6613	-14.969
		10	10.4238	6.0892	6.0229	1.08881
		10	10.2978	5.4599	5.0763	7.02577
		15	10.4056	5.2054	5.1747	0.58977
		15	10.0671	5.0478	5.0329	0.29518
		15	10.1708	6.0306	5.9313	1.6466
		20	10.3909	4.2433	4.9716	-17.164
		20	10.0457	4.9629	4.2282	14.8038
		20	10.1209	5.1049	5.4144	-6.0628

**Tabel A.1a Pengaruh energi dan waktu paparan gelombang mikro terhadap kehilangan berat pada bambu basah**

No.	Energi (watt)	Waktu (menit)	Berat sebelum perlakuan microwave	Berat kering	Water soluble content
1	100	5	10.0001	1.9295	12.30
		5	10.1491	1.8963	15.07
		10	10.346	2.0915	19.14
		10	10.3457	2.3444	9.36
		15	10.008	1.9258	12.53
		15	10.1587	2.1028	17.20
		20	10.0238	1.3393	39.27
		20	10.1277	2.3892	5.64
2	300	5	10.1149	1.9714	11.41
		5	10.0635	2.0795	17.34
		10	10.1576	2.1437	15.58
		10	10.1997	1.8287	18.50
		15	10.0535	1.9697	10.94
		15	10.1716	1.9548	12.64
		20	10.2778	1.3706	39.38
		20	10.1269	1.7689	20.60

3	450	5	10.1544	1.9502	12.70
		5	10.1685	2.1914	13.80
		10	10.008	2.0515	18.01
		10	10.1961	1.1913	46.89
		15	10.3384	1.9504	14.25
		15	10.2125	2.1846	14.43
		20	10.3712	2.0761	19.93
		20	10.02	2.1487	14.22
4	600	5	10.0082	1.8647	15.31
		5	10.1399	1.7222	22.80
		5	10.0656	1.7251	22.10
		5	10.0765	2.2699	9.89
		10	10.1134	2.1623	14.48
		10	10.1943	2.1363	16.18

A.2 Data pengaruh kombinasi perlakuan HCl dan paparan gelombang mikro terhadap kehilangan berat bambu

**Tabel A.2 Pengaruh kombinasi perlakuan HCl dan paparan gelombang mikro terhadap kehilangan berat bambu**

No.	Perlakuan	Konsentrasi	Berat sebelum perlakuan microwave	Berat kering	% weight loss
3	HCl Before	1%	10.1285	2.095	17.2632
		1%	10.3749	1.9236	25.8364
		1%	10.3469	2.1502	16.8756
		3%	10.427	1.8562	28.7926
		3%	10.2706	1.6302	36.51
		3%	10.1874	1.8684	26.6388
		5%	10.1314	1.8521	26.8768
		5%	10.091	1.3451	46.6812
		5%	10.3787	2.0397	21.389

4	HCl After	1%	10.4601	2.3067	11.7905
		1%	10.3346	2.0409	21.0071
		1%	10.2749	2.0359	20.7428
		3%	10.2458	2.258	11.8468
		3%	10.3431	1.8369	28.9613
		3%	10.2477	2.0814	18.7564
		5%	10.3958	1.922	26.0471
		5%	10.1856	1.9677	22.7262
		5%	10.3464	1.9185	25.8293
5	Air	0%	10.3338	2.1161	18.0902
		0%	10.2246	2.3487	8.11572
		0%	10.3046	1.8654	27.5896
6	NaOH (blank)	5%	10.4831	2.3964	8.5614
			10.2765	2.3543	8.3618
			10.2042	2.4577	3.65928
7	HCl (blank)	5%	10.2849	2.375	7.63158
			10.0045	1.9247	23.0466
			10.4189	1.8486	29.029

A.3 Data pengaruh kombinasi perlakuan NaOH dan paparan gelombang mikro terhadap kehilangan berat bambu

**Tabel A.3. Pengaruh kombinasi perlakuan NaOH dan paparan gelombang mikro terhadap kehilangan berat bambu**

No.	Perlakuan	Konsentrasi	Berat sebelum perlakuan microwave	Berat kering	% weight loss
1	NaOH Before	1%	10.0279	2.477	1.19566
		1%	10.1404	2.0588	18.7882
		1%	10.2042	1.8256	28.4373
		3%	10.0721	2.0019	20.4972
		3%	10	2.3058	7.768

		3%	10.2879	2.0704	19.5016
		5%	10.1958	2.0461	19.7277
		5%	10.341	2.5401	1.74645
		5%	10.336	2.4471	5.29799
2	NaOH After	1%	10.3334	1.5743	39.0597
		1%	10.3324	2.1151	18.1178
		1%	10.4178	2.4463	6.0723
		3%	10.0425	2.4215	3.54991
		3%	10.2473	2.2036	13.9832
		3%	10.141	2.1194	16.4027
		5%	10.2777	2.0982	18.3397
		5%	10.3757	2.2426	13.5441
		5%	10.4345	2.3964	8.13551

A.4 Data pengaruh kombinasi perlakuan HCl dan paparan gelombang mikro terhadap kehilangan berat pada bambu dengan variasi usia

**Tabel A.4. Pengaruh kombinasi perlakuan HCl dan paparan gelombang mikro terhadap kehilangan berat pada bambu dengan variasi usia**

No.	Variabel	Berat sebelum perlakuan microwave	Berat kering	% weight loss
1	Muda (% dry matter content: 22%)	10.3608	2.0392	10.5369
		10.2345	1.78	20.9448
		30.3345	5.72	14.289
		30.2218	5.34	19.6847
		30.4133	5.43	18.8453
2	Lebih Tua (% dry matter content: 26%)	10.3238	2.31	13.9405
		10.3647	2.36	12.4246
		30.0592	6.7	14.2717
		30.0782	6.91	11.6406
		30.1092	6.71	14.2864
3	Tua (% dry matter content: 48%)	10.076	4.26	11.9194
		10.1048	4.36	10.1087
		30.0496	12.42	13.8924
		30.1713	12.19	15.8278
		30.2389	13.02	10.2977
4	Lebih Tua (Blank)	30.2781	6.48	17.6861

		30.191	7.32	6.74755
		30.1484	7.47	4.70218
5	Tua (Blank)	30.3359	12.43	14.6363
		30.2118	13.15	9.32075
		30.0926	12.75	11.7308

A.5 Data pengaruh kombinasi perlakuan  $H_2SO_4$  dan paparan gelombang mikro terhadap kehilangan berat pada serat bambu dengan variasi dimensi

**Tabel A.5 Pengaruh kombinasi perlakuan  $H_2SO_4$  dan paparan gelombang mikro terhadap kehilangan berat pada serat bambu dengan variasi dimensi**

No.	Usia bambu	Waktu (menit)	Berat kering awal	Berat kering akhir	% Weight loss
1	Muda	5	10.1195	9.068	10.391
		5	10.0727	9.1093	9.5645
		5	10.0779	9.139	9.3164
		5	10.0955	9.4094	6.7961
		10	10.0033	8.654	13.489
		10	10.0466	9.2213	8.2147
		10	10.0266	9.1003	9.2384
		10	10.0676	9.4445	6.1892
		15	10.0504	9.1139	9.318
		15	10.0328	8.6583	13.7
		15	10.0824	8.9732	11.001
		15	10.0628	9.4637	5.9536
		20	10.0339	9.0764	9.5427
		20	10.1723	9.1356	10.191
		20	10.051	8.9323	11.13
		20	10.0744	9.418	6.5155
			Kontrol Microwave	10.0672	9.3567
2	Agak tua	5	10.0997	9.1662	9.2428
		5	10.087	8.7892	12.866
		5	10.0123	8.7099	13.008
		5	10.0739	9.6319	4.3876
		10	10.1001	8.8042	12.831
		10	10.1091	8.6618	14.317
		10	10.0262	8.1682	18.531
		10	10.0055	9.5794	4.2587
		15	10.0983	8.6265	14.575
		15	10.0946	8.6388	14.422
		15	10.0413	8.3454	16.889
		15	10.0873	9.5656	5.1718
		20	10.0729	8.6143	14.48

		20	10.0083	8.4962	15.108	
		20	10.078	8.2751	17.889	
		20	10.0619	9.6343	4.2497	
		Kontrol Microwave***	10.076	9.3786	6.9214	
		Tanpa treatment	10.0055	9.1057	8.9931	
3	Tua	5	10.0228	9.0313	9.8924	
		5	10.0601	9.127	9.2753	
		5	10.0337	8.8127	12.169	
		5	10.1173	9.4057	7.0335	
		10	10.0808	8.8592	12.118	
		10	10.0289	8.8417	11.838	
		10	10.0916	8.7002	13.788	
		10	10.0205	9.1418	8.769	
		15	10.0964	8.9576	11.279	
		15	10.0231	8.5088	15.108	
		15	10.0781	8.5773	14.892	
		15	10.0531	9.3312	7.1809	
		20	10.0889	8.8844	11.939	
		20	10.0427	8.6266	14.101	
		20	10.0137	8.297	17.144	
		20	10.1141	9.4115	6.9467	
			Kontrol Microwave***	10.1308	9.3394	7.8118
			Tanpa treatment	10.0978	9.3858	7.051