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LAMPIRAN

Lampiran I Alat Penelitian



Gambar 1. Microwave



Gambar 2. Timbangan digital



Gambar 3. Ayakan



Gambar 4. Mortar



Gambar 5. Gelas Erlenmeyer



Gambar 6. Cawan Petri



Gambar 7. Bunsen



Gambar 8. Pinset Anatomis



Gambar 9. Inkubator



Gambar 10. Hot plate Stirrer



Gambar 11. Plastik Wrap

Lampiran II Bahan Penelitian**Gambar 11. Plastik 1****Gambar 12. Plastik 2****Gambar 13. Plastik 3****Gambar 14. Aluminium foil****Gambar 15. *Bacillus Subtilis***



Gambar 16. *Nutrient Broth*



Gambar 17. Aquades



Gambar 18. Alkohol

Lampiran III Sampel Penelitian



Gambar 19. Sampel 1

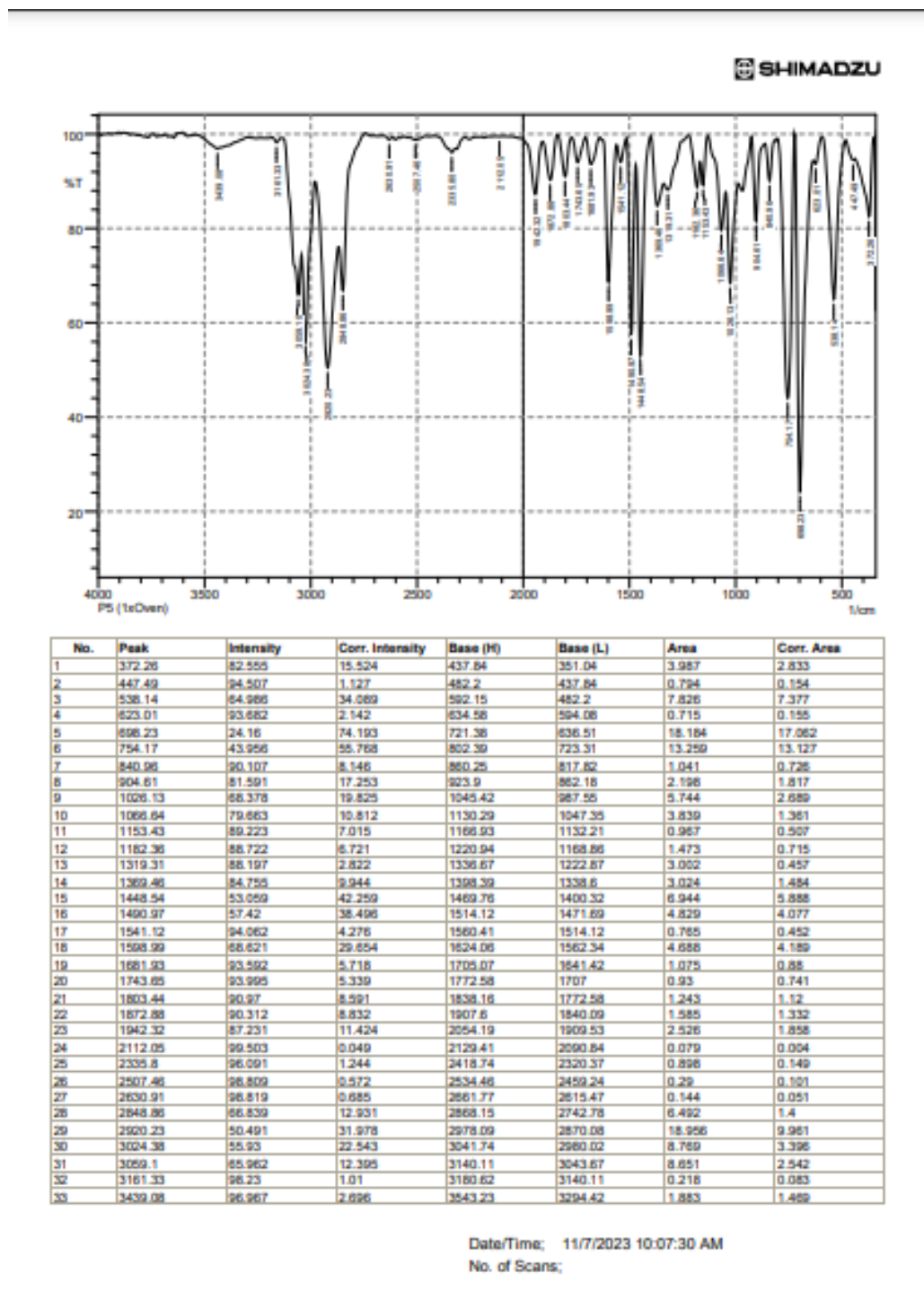


Gambar 20. Sampel 2



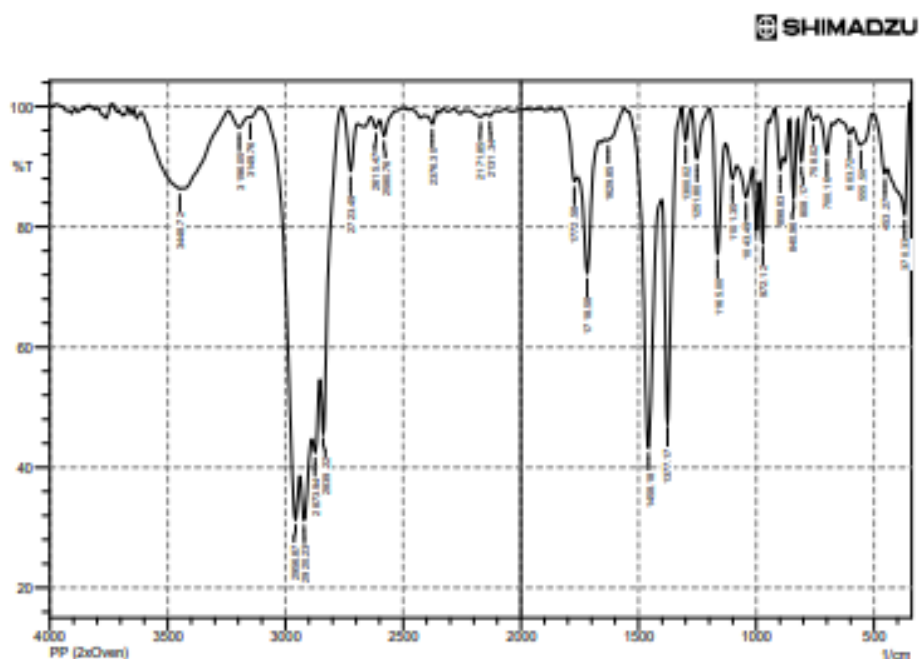
Gambar 21. Sampel 3

Lampiran IV Pengujian *Fourier Transform Infra-Red (FTIR)*



Date/Time: 11/7/2023 10:07:30 AM
 No. of Scans;

Gambar 21. Hasil uji sampel 1

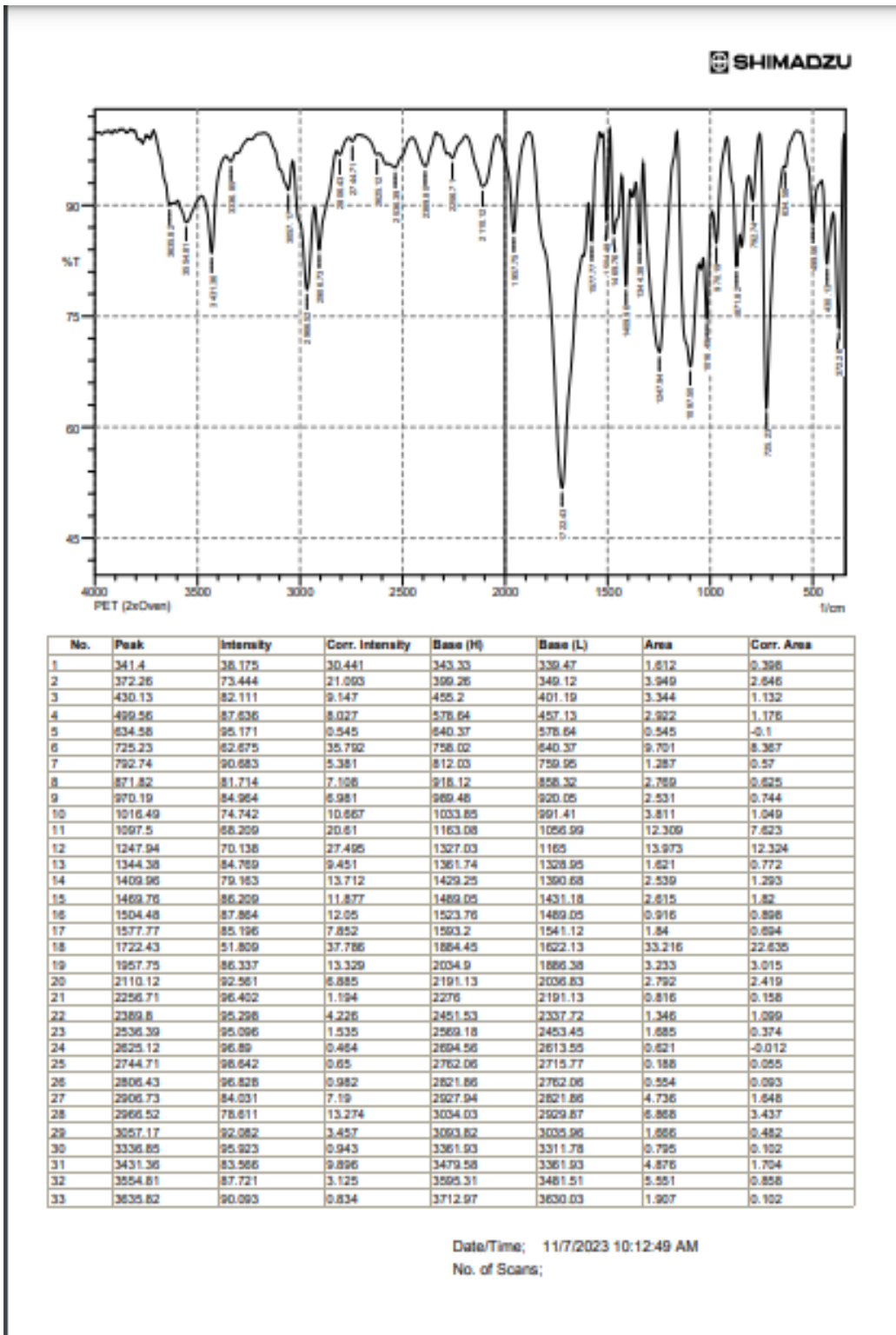


No.	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	370.33	82.07	15.862	441.7	347.19	5.424	3.38
2	453.27	88.852	2.245	503.42	443.63	1.7	0.202
3	555.5	93.589	3.789	588.29	505.35	1.725	0.852
4	603.72	95.456	1.281	651.94	590.22	0.89	0.11
5	700.16	92.118	5.548	738.74	678.94	1.172	0.6
6	758.02	97.783	1.221	779.24	740.67	0.263	0.105
7	808.17	90.884	7.541	823.6	779.24	0.869	0.619
8	840.96	85.005	12.676	858.32	825.53	1.317	0.983
9	898.83	89.555	4.751	920.05	887.26	1.03	0.332
10	972.12	77.479	13.908	985.62	950.91	2.194	1.055
11	1043.49	84.955	4.945	1082.07	1016.49	3.776	0.755
12	1101.35	87.973	3.546	1130.29	1083.99	2.05	0.35
13	1165	75.527	21.212	1197.79	1132.21	3.761	2.78
14	1251.8	91.339	8.275	1274.95	1199.72	1.264	1.142
15	1300.02	94.384	5.39	1317.38	1276.88	0.508	0.465
16	1377.17	47.454	41.851	1402.25	1319.31	10.009	7.015
17	1458.18	43.319	46.878	1541.12	1404.18	17.931	12.561
18	1629.85	94.366	0.345	1633.71	1564.27	1.08	0.179
19	1718.58	72.32	18.541	1757.15	1670.35	6.562	3.124
20	1772.58	87.569	2.92	1826.59	1759.08	1.959	0.245
21	2131.34	98.421	0.623	2148.7	2108.2	0.214	0.051
22	2171.85	98.288	0.703	2218.14	2148.7	0.4	0.117
23	2376.3	97.111	1.862	2411.02	2355.08	0.462	0.187
24	2580.76	95.149	2.977	2600.04	2499.75	0.834	0.289
25	2615.47	96.47	1.472	2636.99	2600.04	0.448	0.123
26	2723.49	89.279	9.007	2760.14	2694.56	1.577	1.116
27	2839.22	45.75	15.519	2852.72	2762.06	11.674	1.904
28	2873.94	42.505	6.234	2887.44	2854.65	11.016	1.046
29	2920.23	31.297	9.384	2937.59	2889.37	21.051	2.651
30	2956.87	31.362	13.341	3111.18	2939.52	26.471	3.035
31	3149.76	98.199	0.287	3157.47	3113.11	0.238	0.045
32	3196.05	96.53	2.157	3244.27	3157.47	0.875	0.399
33	3448.72	86.339	0.789	3610.74	3439.08	7.113	1.241

Date/Time: 11/7/2023 10:22:12 AM

No. of Scans:

Gambar 22. Hasil uji sampel 2



Gambar 23. Hasil uji sampel 3

Lampiran V. Pengujian Degradasi menggunakan *Bacillus Subtilis*

1. Hari ke-10



PS



PP



PET

2. Hari ke-20



PS



PP



PET

3. Hari ke-30



PS



PP



PET

4. Hari ke-40



PS

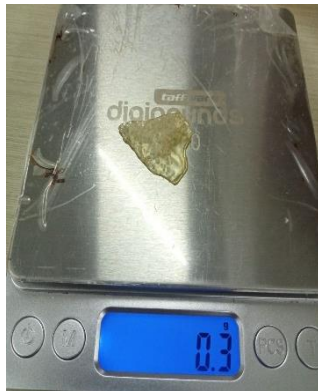


PP



PET

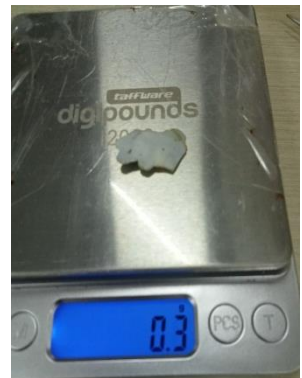
5. Hari ke-50



PS



PP



PET

6. Hari ke-60



PS



PP



PET

Lampiran V Uji Degradasi

$$\text{Biodegradabilitas (\%)} = \frac{\text{massa awal} - \text{massa akhir}}{\text{massa awal}} \times 100$$

1. Sampel 1

$$\text{Hari 10 (\%)} = \frac{(0,5 - 0,5)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 0 \%$$

$$\text{Hari 20 (\%)} = \frac{(0,5 - 0,4)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 20 \%$$

$$\text{Hari 30 (\%)} = \frac{(0,5 - 0,4)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 20 \%$$

$$\text{Hari 40 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

$$\text{Hari 50 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

$$\text{Hari 60 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

2. Sampel 2

$$\text{Hari 10 (\%)} = \frac{(0,5 - 0,5)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 0 \%$$

$$\text{Hari 20 (\%)} = \frac{(0,5 - 0,4)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 20 \%$$

$$\text{Hari 30 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

$$\text{Hari 40 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

$$\text{Hari 50 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

$$\text{Hari 60 (\%)} = \frac{(0,5 - 0,3)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 40 \%$$

3. Sampel 3

$$\text{Hari 10 (\%)} = \frac{(0,5 - 0,5)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 0 \%$$

$$\text{Hari 20 (\%)} = \frac{(0,5 - 0,4)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 20 \%$$

$$\text{Hari 30 (\%)} = \frac{(0,5 - 0,4)\text{gram}}{0,5 \text{ gram}} \times 100$$

$$= 20 \%$$

$$\begin{aligned}\text{Hari 40 (\%)} &= \frac{(0,5-0,4)\text{gram}}{0,5 \text{ gram}} \times 100 \\ &= 20 \%\end{aligned}$$

$$\begin{aligned}\text{Hari 50 (\%)} &= \frac{(0,5-0,3)\text{gram}}{0,5 \text{ gram}} \times 100 \\ &= 40 \%\end{aligned}$$

$$\begin{aligned}\text{Hari 60 (\%)} &= \frac{(0,5-0,3)\text{gram}}{0,5 \text{ gram}} \times 100 \\ &= 40 \%\end{aligned}$$