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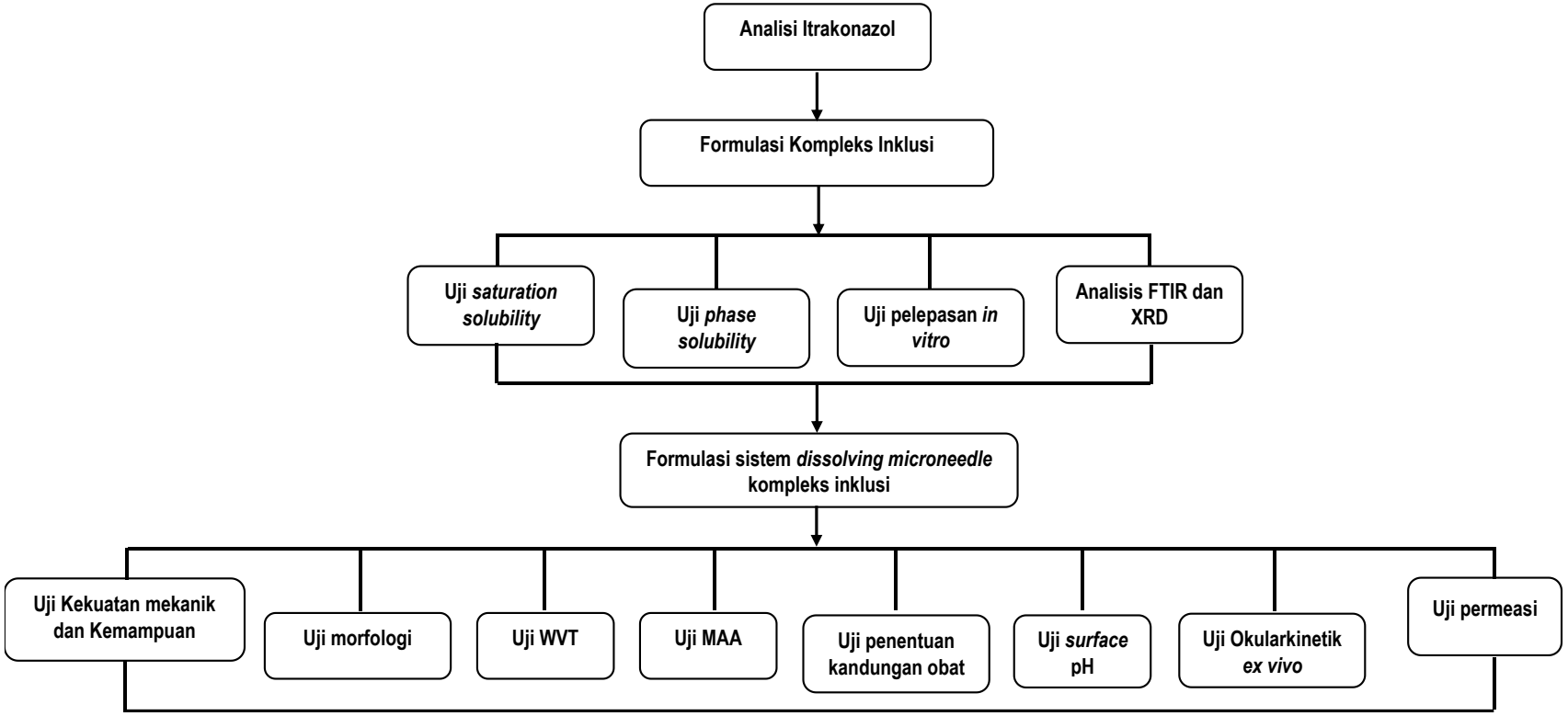
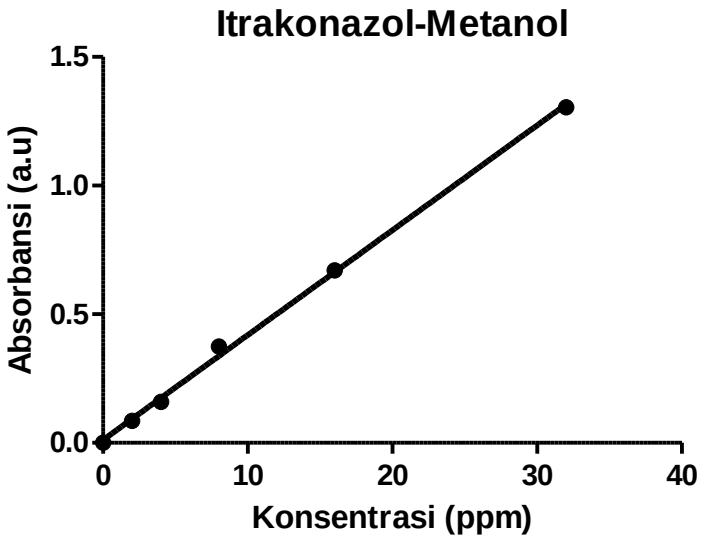
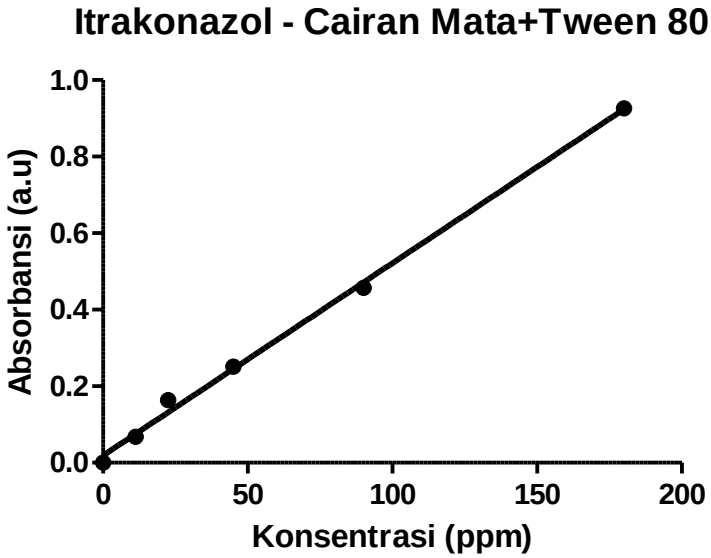
Lampiran 1. Skema kerja Penelitian



Lampiran 2. Linearitas Kurva Standar Pengukuran ITZ pada Berbagai Media Pengukuran





Lampiran 3. Analisis *phase solubility* pada berbagai konsentrasi larutan β-siklodekstrin

Konsentrasi	Absorbansi	Faktor Pengenceran	Konsentrasi (mg/mL)	Rata-Rata (mg)	SD	Mol	mMol	Rata-Rata (mg)	SD
0 mMol	0,405	25	2,0195	2,0578	0,040	2,86E-06	0,0028	0,002916	5,68336E-05
	0,421	25	2,0995			2,98E-06	0,0029		
	0,412	25	2,0545			2,91E-06	0,0029		
0.5 mMol	0,309	50	3,0845	3,0211	0,221	4,37E-06	0,0043	0,004281	0,000314446
	0,278	50	2,7745			3,93E-06	0,0039		
	0,321	50	3,2045			4,54E-06	0,0045		
1 mMol	0,407	50	4,0645	4,0878	0,025	5,76E-06	0,0057	0,005793	3,56642E-05
	0,409	50	4,0845			5,79E-06	0,0057		
	0,412	50	4,1145			5,83E-06	0,0058		
1.5 mMol	0,481	50	4,8045	5,1211	0,281	6,81E-06	0,0068	0,007257	0,000399409
	0,522	50	5,2145			7,39E-06	0,0073		
	0,535	50	5,3445			7,57E-06	0,0075		
2 mMol	0,627	50	6,2645	6,2611	0,035	8,88E-06	0,0088	0,008873	4,97688E-05
	0,623	50	6,2245			8,82E-06	0,0088		
	0,63	50	6,2945			8,92E-06	0,0089		
4 mMol	0,377	150	11,3045	10,984	0,283	1,60E-05	0,0160	0,015567	0,000401832
	0,359	150	10,7645			1,53E-05	0,0152		
	0,363	150	10,8845			1,54E-05	0,0154		
6 mMol	0,566	150	16,9745	15,8445	1,004	2,41E-05	0,0240	0,022454	0,001423022
	0,517	150	15,5045			2,20E-05	0,0219		
	0,502	150	15,0545			2,13E-05	0,0213		

8 mMol	0,864	150	25,9145	25,3145	0,572	3,67E-05	0,0367	0,035875	0,000811127
	0,842	150	25,2545			3,58E-05	0,0357		
	0,826	150	24,7745			3,51E-05	0,0351		

Lampiran 4. Analisis *saturation solubility*

Formula	Replikasi	Absorbansi	Faktor Pengenceran	Konsentrasi (mg/ml)	Rata-Rata (mg)	SD
Pure ITZ	1	0,32	150	9,5945	9,0745	0,4503
	2	0,294	150	8,8145		
	3	0,294	150	8,8145		
F1	1	0,804	150	24,115	24,205	0,1559
	2	0,813	150	24,385		
	3	0,804	150	24,115		
F2	1	0,712	200	28,475	28,661	0,1617
	2	0,719	200	28,755		
	3	0,719	200	28,755		
F3	1	0,769	200	30,755	30,995	0,3487
	2	0,771	200	30,835		
	3	0,785	200	31,395		
F4	1	0,786	250	39,295	39,328	0,1041
	2	0,789	250	39,445		
	3	0,785	250	39,245		
F5	1	0,762	250	38,095	38,428	0,293
	2	0,771	250	38,545		
	3	0,773	250	38,645		
F6	1	0,768	250	38,395	38,361	0,0577

	2	0,766	250	38,295		
	3	0,768	250	38,395		
F7	1	0,791	250	39,545	38,761	0,6898
	2	0,77	250	38,495		
	3	0,765	250	38,245		
F8	1	0,771	250	38,545	38,578	0,0577
	2	0,771	250	38,545		
	3	0,773	250	38,645		
F9	1	0,765	250	38,245	38,361	0,1258
	2	0,77	250	38,495		
	3	0,767	250	38,345		
F10	1	0,76	250	37,995	38,628	0,5508
	2	0,778	250	38,895		
	3	0,78	250	38,995		

Lampiran 5. Uji Kekuatan Mekanik Formula DMN Setelah Aplikasi pada Lapisan Parafilm

Formula	Sebelum			Sesudah			Rata-rata (%Reduction)	SD
	Rep 1	**Rep 2**	**Rep 3**	**Rep 1**	**Rep 2**	**Rep 3**		
F1	698,14	700,59	706,8	580,17	594,58	600,54	15,68	1,049
F2	696,55	691,86	699,9	626,94	614,16	608,08	11,44	1,574
F3	703,09	697,46	701,05	633,39	625,73	618,53	10,65	0,982
F4	700,18	699,86	700,86	650,16	659,87	663,84	6,04	0,974
F5	701,05	698,41	693,31	650,74	637,64	664,09	6,69	2,281

Contoh perhitungan persentase penurunan tinggi needle

$$\%\text{reduksi tinggi needle} = \frac{Tinggi\ sebelum\ kompresi - tinggi\ setelah\ kompresi}{Tinggi\ sebelum\ kompresi} \times 100\%$$

$$= \frac{698{,}14 - 580{,}17}{580{,}17} \times 100\%$$

$$= 15{,}68\ \%$$

Lapisan	F1			F2			F3			F4			F5		
1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2	88	74	81	82	77	87	100	100	99	100	100	100	100	100	100
3	37	42	46	71	57	63	88	89	72	90	89	77	97	99	100
4	0	0	0	0	0	0	14	12	18	34	17	26	88	67	71
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lampiran 6. Penentuan Kandungan Obat dalam Sistem DMN

a. Data hasil penentuan densitas DMN

Formula	Ukuran Balok DMN (mm)			Volume (mm)	Berat (mg)	Densitas (mg/mm)		
	Panjang	Lebar	Tinggi			Densitas	Rata-rata	SD
F1	10	10	5,74	574	563	1,02	1,01	0,009
	10	10	8,69	869	866	1,00		
	10	10	5,23	523	513	1,01		
F2	10	10	5,95	595	567	1,05	1,03	0,020
	10	10	8,85	885	876	1,01		
	10	10	5,35	535	513	1,04		
F3	10	10	5,85	585	554	1,06	1,03	0,022
	10	10	9,05	905	895	1,01		
	10	10	5,03	503	485	1,04		
F4	10	10	5,86	586	573	1,02	1,02	0,004
	10	10	9,03	903	877	1,03		
	10	10	5,13	513	502	1,02		
F5	10	10	5,81	581	566	1,03	1,02	0,005
	10	10	9,15	915	898	1,02		
	10	10	5,22	522	514	1,02		

Contoh perhitungan volume

Panjang (mm)	10
Lebar (mm)	10
Tinggi (mm)	5,74
Volume = P × L × T (mm^3)	574

Contoh perhitungan densitas

Volume (mm^3)	574
Bobot (mg)	563
$\rho = \frac{bobot}{volume}$	1,01

b. Data hasil penentuan LOD (*Loss on drying*) DMN

Formula	B.Basah (mg)	B. Kering (mg)	LOD (%)			Jumlah ITZ dalam massa kering (%)
			LOD (%)	Rata-rata	SD	
1	515	291	43,49	42,64	0,960	34,87
	509	291	42,83			
	512	299	41,60			
2	511	324	36,59	37,76	1,333	32,13

	510	310	39,22			
	515	322	37,48			
3	505	333	34,06	33,03	0,889	29,87
	511	345	32,49			
	513	346	32,55			
4	501	361	27,94	27,81	0,165	27,71
	506	365	27,87			
	514	372	27,63			
5	500	377	24,60	25,72	0,979	26,93
	503	371	26,24			
	501	369	26,35			

Contoh perhitungan densitas

Bobot basah (mg)	515
Bobot kering (mg)	291
% LOD= $\frac{\boldsymbol{bobot\ basah - bobot\ kering}}{\boldsymbol{bobot\ basah}} \boldsymbol{x\ 100}\%$ = $\frac{\boldsymbol{515-291}}{\boldsymbol{515}} \boldsymbol{x100}\%$	43,49

Contoh perhitungan persentase jumlah ITZ-KI dalam massa kering

Konsentrasi ITZ-KI (%)	515
LOD (%)	291
Jumlah ITZ dalam massa kering (%) = $\frac{\boldsymbol{bobot\ ITZ}}{\boldsymbol{100-LOD}} \boldsymbol{x100}\%$ = $\frac{\boldsymbol{20}}{\boldsymbol{100-43,49}} \boldsymbol{x100}\%$	35,39

c. Data hasil penentuan volume dan bobot jarum (*needles*)

Formula	Bobot needle kering (mg)			Rata-rata (mg)	SD
F1	0,95	0,94	0,95	0,95	0,008
F2	0,98	0,94	0,97	0,96	0,019
F3	0,99	0,94	0,97	0,97	0,020
F4	0,99	0,94	0,95	0,95	0,006
F5	0,99	0,95	0,95	0,95	0,005

d. Data hasil penentuan bobot Kompleks Inklusi ITZ

Formula	**Jumlah Kompleks Inklusi (mg)**	**Rata-rata**	**Standar Deviasi**
F1	0,33	0,33	0,002
	0,33		
	0,33		
F2	0,32	0,31	0,006

	0,30		
	0,31		
F3	0,29	0,29	0,007
	0,29		
	0,28		
F4	0,29	0,27	0,015
	0,26		
	0,26		
F5	0,26	0,26	0,004
	0,26		
	0,26		

Contoh perhitungan penentuan volume, bobot jarum (*needle*), dan bobot itrakonazol

Volume satu needle	0,00934 mm^3
Volume 100 needle	0,00934 × 100 = 0,934 mm^3
Bobot 100 needle	= Volume 100 needle × densitas = 0,934 mm^3 × 1,01 = 0,94334 mg
Jumlah ITZ-KI dalam massa kering	= % ITZ-KI bobot 100 *needle* = 35,39 × 0,943 = 0,33 mg

e. Data Hasil Penentuan Jumlah Kompleks Inklusi dalam Jarum

Formula	**Jumlah ITZ dalam massa kering (%)**	**Bobot Needle kering**	Jumlah Kompleks Inklusi (mg)	**Rata-rata**	**Standar Deviasi**
F1	35,39	0,95	0,33	0,33	0,002
	34,98	0,94	0,33		
	34,24	0,95	0,33		
F2	31,54	0,98	0,32	0,31	0,006
	32,90	0,94	0,3		
	31,98	0,97	0,31		
F3	30,33	0,99	0,29	0,29	0,007
	29,62	0,94	0,29		
	29,65	0,97	0,28		
F4	27,75	0,99	0,29	0,27	0,015
	27,72	0,94	0,26		
	27,63	0,95	0,26		
F5	26,52	0,99	0,26	0,26	0,004
	27,11	0,95	0,26		
	27,15	0,95	0,26		

f. Data hasil perhitungan itrakonazol teoritis

Formula	Jumlah ITZ (mg)	Rata-rata	Jumlah ITZ (µg)	Rata-rata
F1	0,079	0,079	78,920	77,608
	0,078		77,696	
	0,079		78,937	
F2	0,075	0,074	74,880	73,796
	0,072		72,090	
	0,074		74,417	
F3	0,070	0,069	70,028	69,038
	0,070		70,028	
	0,067		67,058	
F4	0,069	0,065	68,778	64,635
	0,063		62,917	
	0,062		62,208	
F5	0,063	0,062	62,869	61,726
	0,061		61,381	
	0,061		60,928	

g. Data hasil perhitungan ITZ dalam 100 jarum (needle)

Formula	Absorbansi			Konsentrasi		
	1	2	3	1	2	3
F1	0,422	0,438	0,446	15,164	15,745	16,036
F2	0,403	0,406	0,41	14,472	14,582	14,727
F3	0,391	0,365	0,387	14,036	13,090	13,891
F4	0,351	0,36	0,344	12,582	12,909	12,327
F5	0,338	0,346	0,339	12,109	12,400	12,145

Contoh perhitungan jumlah ITZ dalam jarum (needle)

Drug loading (DL) ITZ dalam Kompleks inklusi	23,80%
Bobot Kompleks inklusi ITZ dalam jarum	0,33 mg
Jumlah ITZ dalam formula	= Bobot KI di needle × DL ITZ = 0,33 mg × 23,80% = 0,079 mg

Contoh perhitungan kandungan ITZ dalam jarum

Persamaan kurva baku	Y = 0,0275x + 0,005
Absorbansi	0,422
Bobot teoritis ITZ	0,0079 mg
Konsentrasi	$= \frac{absorbansi - b}{a}$ $= \frac{0{,}422 - 0{,}005}{0{,}0275}$ = 15,163 µg/mL

h. Data hasil penentuan Drug Content Recovery

Formula	Jumlah ITZ (µg)	Jumlah ITZ dalam 5 mL	% Recovery			Rata-rata	SD
			1	2	3		
F1	77,608	15,703	96,069	101,328	101,577	99,65	3,110
F2	73,796	14,759	96,639	101,136	98,951	98,90	2,249
F3	69,038	13,807	100,219	93,468	103,573	99,08	5,146
F4	64,635	12,926	91,466	102,588	99,080	97,71	5,686
F5	61,726	12,345	96,304	101,008	99,669	98,99	2,423

Contoh perhitungan persentase *Recovery*

Konsentrasi ITZ	15,163 µg/mL
Konsentrasi ITZ dalam 5 mL	15,784 µg/5mL
% *Recovery*	$= \frac{15,163}{15,784} x\ 100\%$ = 96,069 %

Lampiran 7. Tabel uji pengukuran *Surface* pH

Formula	Bobot			Nilai pH			Rata-Rata	SD
	I	II	II	I	II	III		
F1	0,0224	0,0221	0,0224	7,47	7,44	7,43	7,45	0,02
F2	0,0228	0,023	0,0231	7,43	7,31	7,37	7,37	0,06
F3	0,0222	0,0223	0,0222	7,33	7,38	7,29	7,33	0,04
F4	0,0277	0,0278	0,0275	7,38	7,33	7,32	7,34	0,03
F5	0,0286	0,0281	0,0283	7,3	7,1	7,11	7,17	0,11

Lampiran 8. Tabel Uji Permeasi Ex-vivo

Formula 1

Jam	Replikasi	Absorbansi	Konsentrasi (µg/mL)	Dilution Factor	13 mL (mg)	Faktor Koreksi	Jumlah Terpermeasi (mg)	Rata-Rata	SD
15	1	0	0	2	0	0	0	0	0
	2	0	0	2	0	0	0		
	3	0	0	2	0	0	0		
30	1	0,034	1,34	2	0,034	0	0,034	0,102	0,06
	2	0,058	6,14	2	0,159	0	0,159		
	3	0,049	4,34	2	0,112	0	0,112		
45	1	0,046	3,74	2	0,097	0,001	0,098	0,168	0,08
	2	0,055	5,54	2	0,144	0,006	0,150		
	3	0,076	9,74	2	0,253	0,004	0,257		
1	1	0,077	9,94	2	0,258	0,005	0,263	0,234	0,02
	2	0,069	8,34	2	0,216	0,011	0,228		
	3	0,065	7,54	2	0,196	0,014	0,210		
2	1	0,103	15,14	2	0,393	0,015	0,408	0,376	0,04
	2	0,099	14,34	2	0,372	0,020	0,392		
	3	0,086	11,74	2	0,305	0,021	0,326		
3	1	0,09	12,54	2	0,326	0,030	0,356	0,405	0,09
	2	0,088	12,14	2	0,315	0,034	0,35		
	3	0,119	18,34	2	0,476	0,033	0,510		
4	1	0,089	12,34	2	0,320	0,042	0,363	0,431	0,06

	2	0,101	14,74	2	0,383	0,046	0,429		
	3	0,114	17,34	2	0,450	0,051	0,502		
5	1	0,106	15,74	2	0,409	0,055	0,464	0,521	0,05
	2	0,118	18,14	2	0,471	0,061	0,532		
	3	0,123	19,14	2	0,497	0,069	0,566		
6	1	0,127	19,94	2	0,518	0,070	0,589	0,601	0,04
	2	0,138	22,14	2	0,575	0,079	0,655		
	3	0,118	18,14	2	0,471	0,088	0,559		
7	1	0,142	22,94	2	0,596	0,090	0,687	0,668	0,02
	2	0,139	22,34	2	0,580	0,101	0,682		
	3	0,129	20,34	2	0,528	0,106	0,635		
8	1	0,138	22,14	2	0,575	0,113	0,689	0,781	0,08
	2	0,157	25,94	2	0,674	0,123	0,798		
	3	0,168	28,14	2	0,731	0,126	0,858		
24	1	0,228	40,14	2	1,043	0,135	1,179	1,117	0,05
	2	0,208	36,14	2	0,939	0,149	1,089		
	3	0,206	35,74	2	0,929	0,154	1,084		

Formula 2

Jam	Replikasi	Absorbansi	Konsentrasi (µg/mL)	Dilution Factor	13 mL (mg)	Faktor Koreksi	Jumlah Terpermeasi (mg)	Rata-Rata ± SD	
15	1	0,045	3,54	2	0,092	0	0,092	0,052	0,03
	2	0,035	1,54	2	0,040	0	0,040		
	3	0,032	0,94	2	0,024	0	0,024		

30	1	0,056	5,74	2	0,149	0,003	0,152	0,156	0,06
	2	0,069	8,34	2	0,216	0,001	0,218		
	3	0,046	3,74	2	0,097	0,000	0,098		
45	1	0,086	11,74	2	0,305	0,009	0,314	0,294	0,03
	2	0,074	9,34	2	0,242	0,009	0,252		
	3	0,087	11,94	2	0,310	0,004	0,315		
1	1	0,11	16,54	2	0,430	0,021	0,451	0,422	0,04
	2	0,109	16,34	2	0,424	0,019	0,444		
	3	0,096	13,74	2	0,357	0,016	0,373		
2	1	0,098	14,14	2	0,367	0,037	0,405	0,454	0,09
	2	0,097	13,94	2	0,362	0,035	0,398		
	3	0,129	20,34	2	0,528	0,030	0,559		
3	1	0,099	14,34	2	0,372	0,051	0,424	0,473	0,04
	2	0,113	17,14	2	0,445	0,049	0,495		
	3	0,114	17,34	2	0,450	0,050	0,501		
4	1	0,118	18,14	2	0,471	0,066	0,537	0,557	0,03
	2	0,118	18,14	2	0,471	0,066	0,538		
	3	0,129	20,34	2	0,528	0,068	0,596		
5	1	0,13	20,54	2	0,534	0,084	0,618	0,612	0,05
	2	0,138	22,14	2	0,575	0,084	0,660		
	3	0,118	18,14	2	0,471	0,088	0,560		
6	1	0,147	23,94	2	0,622	0,104	0,727	0,705	0,02
	2	0,145	23,54	2	0,612	0,106	0,718		
	3	0,136	21,74	2	0,565	0,106	0,671		
7	1	0,153	25,14	2	0,653	0,128	0,782	0,777	0,08

	2	0,134	21,34	2	0,554	0,130	0,685		
	3	0,169	28,34	2	0,736	0,128	0,865		
8	1	0,2	34,54	2	0,898	0,153	1,051	0,946	0,10
	2	0,178	30,14	2	0,783	0,151	0,935		
	3	0,161	26,74	2	0,695	0,156	0,851		
24	1	0,362	66,94	2	1,740	0,188	1,928	1,526	0,41
	2	0,291	52,74	2	1,371	0,181	1,553		
	3	0,203	35,14	2	0,913	0,183	1,096		

Formula 3

Jam	Replikasi	Absorbansi	Konsentrasi (µg/mL)	Dilution Factor	13 mL (mg)	Faktor Koreksi	Jumlah Terpermeasi (mg)	Rata-Rata ± SD	
15	1	0,104	15,34	2	0,398	0	0,398	0,372	0,05
	2	0,106	15,74	2	0,409	0	0,409		
	3	0,087	11,94	2	0,310	0	0,310		
30	1	0,11	16,54	2	0,430	0,015	0,445	0,435	0,05
	2	0,097	13,94	2	0,362	0,015	0,378		
	3	0,118	18,14	2	0,471	0,011	0,483		
45	1	0,101	14,74	2	0,383	0,031	0,415	0,460	0,04
	2	0,116	17,74	2	0,461	0,029	0,490		
	3	0,113	17,14	2	0,445	0,030	0,475		
1	1	0,12	18,54	2	0,482	0,046	0,528	0,532	0,01
	2	0,118	18,14	2	0,471	0,047	0,519		
	3	0,124	19,34	2	0,502	0,047	0,550		

2	1	0,116	17,74	2	0,461	0,065	0,526	0,570	0,05
	2	0,135	21,54	2	0,560	0,065	0,625		
	3	0,122	18,94	2	0,492	0,066	0,559		
3	1	0,132	20,94	2	0,544	0,083	0,627	0,629	0,02
	2	0,128	20,14	2	0,52364	0,087	0,610		
	3	0,136	21,74	2	0,56524	0,085	0,650		
4	1	0,153	25,14	2	0,65364	0,103	0,757	0,719	0,03
	2	0,144	23,34	2	0,60684	0,107	0,714		
	3	0,139	22,34	2	0,58084	0,107	0,688		
5	1	0,151	24,74	2	0,64324	0,128	0,772	0,838	0,05
	2	0,173	29,14	2	0,75764	0,130	0,888		
	3	0,167	27,94	2	0,72644	0,129	0,856		
6	1	0,135	21,54	2	0,56004	0,153	0,713	0,850	0,12
	2	0,179	30,34	2	0,78884	0,159	0,948		
	3	0,168	28,14	2	0,73164	0,157	0,889		
7	1	0,219	38,34	2	0,99684	0,175	1,172	1,173	0,07
	2	0,231	40,74	2	1,05924	0,190	1,249		
	3	0,203	35,14	2	0,91364	0,185	1,099		
8	1	0,234	41,34	2	1,07484	0,213	1,288	1,348	0,06
	2	0,257	45,94	2	1,19444	0,230	1,425		
	3	0,241	42,74	2	1,11124	0,220	1,332		
24	1	0,485	91,54	2	2,38004	0,254	2,634	2,542	0,12
	2	0,436	81,74	2	2,12524	0,276	2,401		
	3	0,475	89,54	2	2,32804	0,26354	2,59158		

Formula 4

Jam	Replikasi	Absorbansi	Konsentrasi (µg/mL)	Dilution Factor	13 mL (mg)	Faktor Koreksi	Jumlah Terpermeasi (mg)	Rata-Rata ± SD	
15	1	0,223	39,14	2	1,017	0	1,017	0,984	0,07
	2	0,226	39,74	2	1,033	0	1,033		
	3	0,201	34,74	2	0,903	0	0,903		
30	1	0,219	38,34	2	0,996	0,039	1,035	1,052	0,01
	2	0,224	39,34	2	1,022	0,039	1,062		
	3	0,224	39,34	2	1,022	0,034	1,057		
45	1	0,262	46,94	2	1,220	0,077	1,297	1,307	0,02
	2	0,259	46,34	2	1,204	0,079	1,283		
	3	0,271	48,74	2	1,267	0,074	1,341		
1	1	0,314	57,34	2	1,490	0,124	1,615	1,6427	0,03
	2	0,326	59,74	2	1,553	0,125	1,678		
	3	0,318	58,14	2	1,511	0,122	1,634		
2	1	0,357	65,94	2	1,714	0,181	1,896	1,897	0,008
	2	0,355	65,54	2	1,704	0,185	1,889		
	3	0,359	66,34	2	1,724	0,180	1,905		
3	1	0,371	68,74	2	1,787	0,247	2,034	2,021	0,03
	2	0,374	69,34	2	1,802	0,250	2,053		
	3	0,36	66,54	2	1,730	0,247	1,977		
4	1	0,382	70,94	2	1,844	0,316	2,160	2,175	0,02
	2	0,389	72,34	2	1,880	0,320	2,200		
	3	0,383	71,14	2	1,849	0,313	2,163		
5	1	0,392	72,94	2	1,896	0,387	2,283	2,326	0,03
	2	0,404	75,34	2	1,958	0,392	2,351		
	3	0,404	75,34	2	1,958	0,384	2,343		
6	1	0,402	74,94	2	1,948	0,460	2,408	2,449	0,03
	2	0,409	76,34	2	1,984	0,467	2,452		
	3	0,417	77,94	2	2,026	0,460	2,486		
7	1	0,422	78,94	2	2,052	0,535	2,587	2,654	0,09
	2	0,424	79,34	2	2,062	0,544	2,606		

	3	0,456	85,74	2	2,229	0,538	2,767		
8	1	0,458	86,14	2	2,239	0,614	2,853	2,957	0,08
	2	0,487	91,94	2	2,390	0,623	3,013		
	3	0,485	91,54	2	2,380	0,624	3,004		
24	1	0,485	91,54	2	2,380	0,700	3,080	3,386	0,32
	2	0,606	115,74	2	3,009	0,715	3,724		
	3	0,535	101,54	2	2,640	0,715	3,355		

Formula 5

Jam	Replikasi	Absorbansi	Konsentrasi (µg/mL)	Dilution Factor	13 mL (mg)	Faktor Koreksi	Jumlah Terpermeasi (mg)	Rata-Rata ± SD	
15	1	0,226	39,74	2	1,033	0	1,033	1,040	0,006
	2	0,228	40,14	2	1,043	0	1,043		
	3	0,228	40,14	2	1,043	0	1,043		
30	1	0,274	49,34	2	1,282	0,039	1,322	1,329	0,006
	2	0,276	49,74	2	1,293	0,040	1,333		
	3	0,276	49,74	2	1,293	0,040	1,333		
45	1	0,288	52,14	2	1,355	0,089	1,444	1,488	0,038
	2	0,3	54,54	2	1,418	0,089	1,507		
	3	0,301	54,74	2	1,423	0,089	1,513		
1	1	0,349	64,34	2	1,672	0,141	1,814	1,842	0,027
	2	0,354	65,34	2	1,698	0,144	1,843		
	3	0,359	66,34	2	1,724	0,144	1,869		
2	1	0,396	73,74	2	1,917	0,205	2,122	2,126	0,002
	2	0,396	73,74	2	1,917	0,209	2,127		
	3	0,396	73,74	2	1,917	0,210	2,128		

3	1	0,428	80,14	2	2,083	0,279	2,362	2,352	0,027
	2	0,429	80,34	2	2,088	0,283	2,372		
	3	0,419	78,34	2	2,036	0,284	2,321		
4	1	0,437	81,94	2	2,130	0,359	2,489	2,402	0,116
	2	0,394	73,34	2	1,906	0,363	2,270		
	3	0,428	80,14	2	2,083	0,363	2,446		
5	1	0,459	86,34	2	2,244	0,441	2,686	2,685	0,003
	2	0,459	86,34	2	2,244	0,437	2,682		
	3	0,459	86,34	2	2,244	0,443	2,688		
6	1	0,476	89,74	2	2,333	0,527	2,860	2,848	0,018
	2	0,476	89,74	2	2,333	0,523	2,856		
	3	0,469	88,34	2	2,296	0,529	2,826		
7	1	0,498	94,14	2	2,447	0,617	3,065	3,056	0,007
	2	0,496	93,74	2	2,437	0,613	3,050		
	3	0,496	93,74	2	2,437	0,617	3,055		
8	1	0,486	91,74	2	2,385	0,711	3,096	3,154	0,051
	2	0,506	95,74	2	2,489	0,707	3,196		
	3	0,5	94,54	2	2,458	0,711	3,169		
24	1	0,609	116,34	2	3,024	0,803	3,828	3,785	0,215
	2	0,556	105,74	2	2,749	0,802	3,551		
	3	0,637	121,94	2	3,170	0,806	3,976		