

Lampiran 3. Aktivitas enzim α -amilase hipokotil kecambah kacang merah dan kacang buncis hitam dengan tinggi hipokotil yang berbeda

JENIS	LAMA PEMAPARAN MEDAN MAGNET	PANJANG HIPOKOTIL	AKTIVITAS ENZIM α -AMILASE (U/mL)			JUMLAH	RATA-RATA
			KELOMPOK				
			1	2	3		
K A C A N G M E R A H	KONTROL	1 cm	1,154	0,763	0,775	2,692	0,897333
		3 cm	1,104	0,716	0,718	2,538	0,846
		5 cm	1,002	0,783	0,75	2,535	0,845
		7 cm	1,083	0,71	0,765	2,558	0,852667
		9 cm	0,999	0,8	0,807	2,606	0,868667
	TOTAL					12,929	4,309667
	7'48''	1 cm	4,09	4,456	4,697	13,243	4,414333
		3 cm	2,609	12,57	10,863	26,042	8,680667
		5 cm	10,379	13,435	12,96	36,774	12,258
		7 cm	22,788	20,451	19,869	63,108	21,036
		9 cm	15,573	21,05	19,132	55,755	18,585
	TOTAL					194,922	64,974
	11'44''	1 cm	3,223	3,46	5,522	12,205	4,068333
		3 cm	3,261	9,944	11,365	24,57	8,19
		5 cm	10,659	17,624	13,653	41,936	13,97867
		7 cm	18,098	20,507	22,536	61,141	20,38033
		9 cm	22,535	21,1	20,917	64,552	21,51733
	TOTAL					204,404	68,13467
	15'36''	1 cm	2,322	4,508	5,11	11,94	3,98

Aktivitas enzim α -amilase...(Lanjutan)

		3 cm	2,681	14,022	10,083	26,786	8,928667
		5 cm	21,158	19,259	15,573	55,99	18,66333
		7 cm	28,957	21,408	22,431	72,796	24,26533
		9 cm	22,736	20,95	23,742	67,428	22,476
		TOTAL				234,94	78,31333
B U N C I S H I T A M	KONTROL	1 cm	0,901	0,666	1,128	2,695	0,898333
		3 cm	0,858	0,617	1,14	2,615	0,871667
		5 cm	0,853	0,726	1,107	2,686	0,895333
		7 cm	0,848	0,738	0,981	2,567	0,855667
		9 cm	0,883	0,599	0,992	2,474	0,824667
	TOTAL					13,037	4,345667
	7'48"	1 cm	7,636	4,264	1,596	9,232	4,498667
		3 cm	22,284	15,948	9,579	31,863	15,937
		5 cm	13,646	25,069	17,669	31,315	18,79467
		7 cm	25,802	33,225	19,286	45,088	26,10433
		9 cm	26,863	34,324	22,702	49,565	27,963
	TOTAL					167,063	93,29767
	11'44"	1 cm	21,62	8,829	1,241	31,69	10,56333
		3 cm	18,788	16,078	17,193	52,059	17,353
		5 cm	2,063	24,242	23,415	49,72	16,57333
		7 cm	30,849	32,087	21,61	84,546	28,182
		9 cm	23,511	33,522	17,218	74,251	24,75033
	TOTAL					292,266	97,422

Aktivitas enzim α -amilase...(Lanjutan)

15'36"	1 cm	16,249	15,195	2,376	33,82	11,27333
	3 cm	26,527	18,541	13,158	58,226	19,40867
	5 cm	13,13	24,077	22,8	60,007	20,00233
	7 cm	29,434	26,829	25,933	82,196	27,39867
	9 cm	32,435	32,254	23,347	88,036	29,34533
TOTAL					322,285	107,4283

Lampiran 4. Aktivitas enzim α -amilase kecambah (kotiledon dan hipokotil) kacang merah dan kacang buncis hitam dengan tinggi hipokotil yang berbeda

JENIS	LAMA PEMAPARAN MEDAN MAGNET	KOTILEDON + HIPOKOTIL PADA SAAT PANJANG HIPOKOTIL	AKTIVITAS ENZIM α -AMILASE (U/mL)			JUMLAH	RATA-RATA
			KELOMPOK				
			1	2	3		
K A C A N G M E R A H	KONTROL	1 cm	1,695	1,739	2,019	5,453	1,817667
		3 cm	1,968	1,801	2,066	5,835	1,945
		5 cm	1,796	1,708	1,884	5,388	1,796
		7 cm	1,826	1,536	2,007	5,369	1,789667
		9 cm	1,64	1,419	1,634	4,693	1,564333
	TOTAL					26,738	8,912667
	7'48"	1 cm	22,277	19,597	3,071	44,945	14,98167
		3 cm	23,862	23,676	24,55	72,088	24,02933
		5 cm	23,964	28,431	24,798	77,193	25,731
		7 cm	24,775	30,26	28,161	83,196	27,732
		9 cm	29,293	28,555	27,613	85,461	28,487
	TOTAL					362,883	120,961
	11'44"	1 cm	17,133	18,01	0,99	36,133	12,04433
		3 cm	26,3	24,231	16,321	66,852	22,284
		5 cm	24,343	28,454	30,891	83,688	27,896
		7 cm	32,355	31,198	30,852	94,405	31,46833
		9 cm	29,439	28,978	32,901	91,318	30,43933

Aktivitas enzim α -amilase...(Lanjutan)

	TOTAL					372,396	124,132
	15'36"	1 cm	21,31	21,3	4,775	47,385	15,795
		3 cm	26,931	27,185	26,679	80,795	26,93167
		5 cm	25,546	29,461	24,841	79,848	26,616
		7 cm	23,965	29,427	34,559	87,951	29,317
		9 cm	31,829	30,923	27,295	90,047	30,01567
	TOTAL					386,026	128,6753
B U N C I S H I T A M	KONTROL	1 cm	1,44	1,409	1,501	4,35	1,45
		3 cm	1,113	1,582	1,527	4,222	1,407333
		5 cm	1,043	1,427	1,647	4,117	1,372333
		7 cm	1,344	1,34	1,361	4,045	1,348333
		9 cm	1,234	1,451	1,189	3,874	1,291333
	TOTAL					20,608	6,869333
	7'48"	1 cm	22,333	26,089	27,555	75,977	25,32567
		3 cm	22,282	30,847	31,67	84,799	28,26633
		5 cm	28,034	31,731	34,681	94,446	31,482
		7 cm	28,72	32,925	32,946	94,591	31,53033
		9 cm	27,974	34,9	32,935	95,809	31,93633
	TOTAL					445,622	148,5407
	11'44"	1 cm	17,639	25,578	28,807	72,024	24,008
		3 cm	21,563	30,872	33,373	85,808	28,60267
		5 cm	19,405	32,992	33,2	85,597	28,53233

Aktivitas enzim α -amilase...(Lanjutan)

		7 cm	28,214	31,104	32,505	91,823	30,60767
		9 cm	27,196	34,211	29,268	90,675	30,225
	TOTAL					425,927	141,9757
	15'36"	1 cm	19,028	24,045	32,245	75,318	25,106
		3 cm	26,954	25,992	31,12	84,066	28,022
		5 cm	25,35	32,123	34,317	91,79	30,59667
		7 cm	29,524	32,925	32,917	95,366	31,78867
		9 cm	28,882	32,281	31,892	93,055	31,01833
	TOTAL					439,595	146,5317