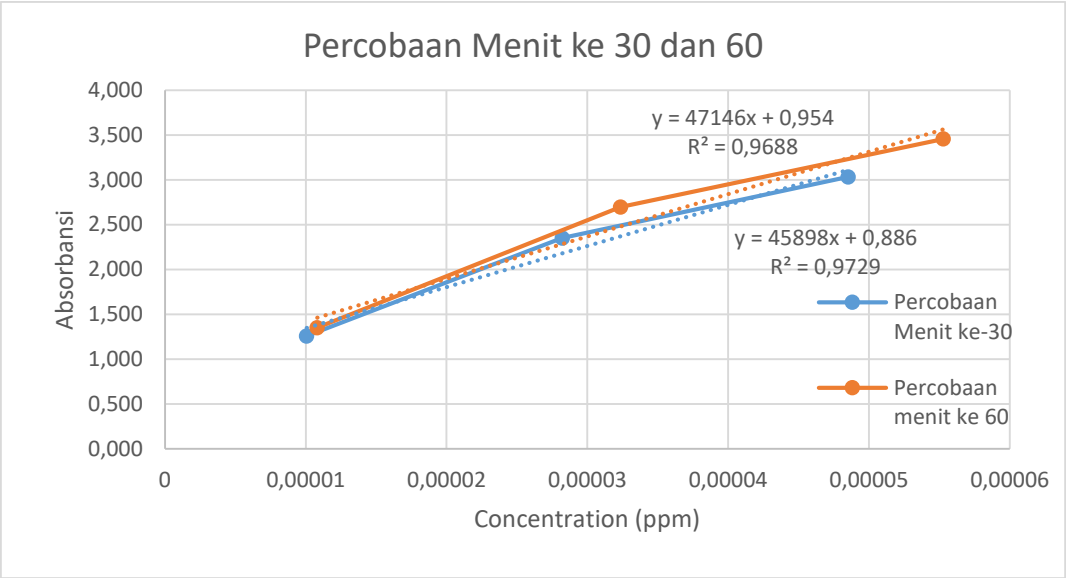
LAMPIRAN

1. Perhitungan Kadar Gingerol



Y=absorbansi
a=0,9688
b=0,954
y=ax+b

- Variabel I Menit ke-30
  Y=0,9688x + 0,954
  1,258= 0,9688x + 0,954
  X=1,812
  Kadar Gingerol dan Shogaol= (1,812 x 4)/500*100% = 1,450%
- Variabel II Menit ke-30
  Y=0,9688x + 0,954
  2,351=0,9688x + 0,954
  X=7,463
  Kadar Gingerol dan Shogaol=(7,463 x 6)/500 x 100% = 8,956%
- Variabel III Menit ke-30
  Y=0,9688x + 0,954
  3,033=0,9688x + 0,954
  X=10,989
  Kadar Gingerol dan Shogaol = (10,989 x 8)/500 x 100% = 17,582%
  Y=absorbansi
  a=0,9729
  b=0,886
  y=ax + b
- Variabel I Menit ke-60
  Y=0,9729x + 0,886
  1,352=0,9729x + 0,886
  X= 2,298
  Kadar Gingerol dan Shogaol = (2,298 x 4)/500 x 100% = 1,838%

- Variabel II Menit ke-60
  Y=0,9729x + 0,886
  2,697=0,9729x + 0,886
  X=9,252
  Kadar Gingerol dan Shogaol = (9,252 x 6)/500 x 100% = 11,102%
- Variabel III Menit ke-60
  Y=0,9729x + 0,886
  3,455=0,9729x + 0,886
  X=13,171
  Kadar Gingerol dan Shogaol = (13,171 x 8)/500 x 100% = 21,073%

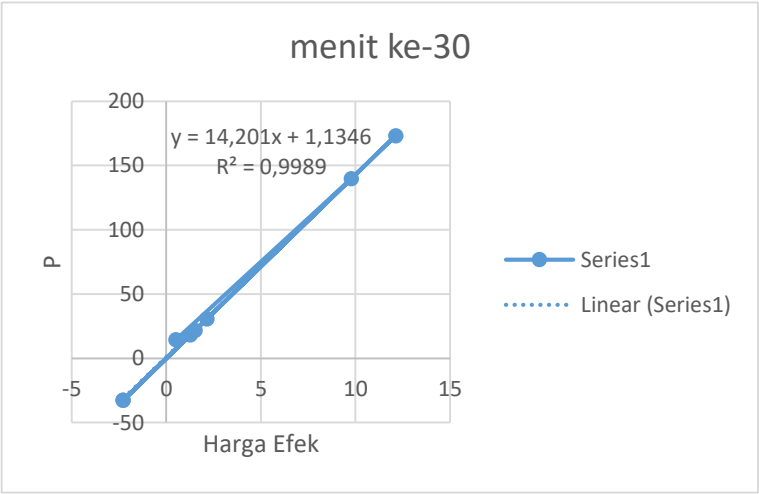
Jumlah Pelarut(liter)	pH	Suhu	Hasil(gr/lt)	Hasil(%)	nama/judul	waktu(menit)	Ket.
4	6	80	7,7654	6,21232	Syafa: Pengaruh suhu dan jumlah pelarut	30	
			9,4918	7,59344		60	
6	6	100	10,9674	13,16088		30	
			11,9674	14,36088		60	
8	6	60	8,8436	14,14976		30	*4
			9,2703	14,83248		60	
4	4	80	16,985	13,588	Vivi : Pengaruh pH	30	
			17,235	13,788		60	
4	5	80	17,245	13,796		30	
			17,615	14,092		60	
4	6	80	18,715	14,972		30	
			19,585	15,668		60	
8	4	80	8,219	13,1504	Septi : pengaruh pH dan suhu	30	
			11,1198	17,79168		60	
8	5	100	12,6198	20,19168		30	
			14,5548	23,28768		60	
8	6	60	17,794	28,4704		30	
			17,774	28,4384		60	
4	4	60	1,812	1,4496	Giovani : Pengaruh jumlah pelarut dan pH	30	1
			2,298	1,8384		60	
6	5	60	7,463	8,9556		30	
			9,252	11,1024		60	
8	6	60	10,989	17,5824		30	
			13,171	21,0736		60	
8	4	100	17,455	27,928	Iqbal :pengaruh jumlah pelarut	30	6
			19,038	30,4608		60	
4	4	100	19,511	15,6088		30	5
			20,738	16,5904		60	
8	4	60	8,296	13,2736		30	2
			10,431	16,6896		60	
4	6	80	17,2497	13,79976	Hafidz : pengaruh suhu	30	
			18,5778	14,86224		60	
8	6	100	17,97891	28,76625		30	8
			19,5986	31,35776		60	
4	6	100	20,6089	16,48712		30	7
			22,7445	18,1956		60	
8	4	60	4,51814	7,229024	Indri : variabel berpengaruh	30	
			5,12174	8,194784		60	
8	6	80	10,4977	16,79632		30	
			11,1436	17,82976		60	
4	6	60	11,8037	9,44296		30	3
			12,1955	9,7564		60	

2. Optimasi Variabel

- Menit ke-30

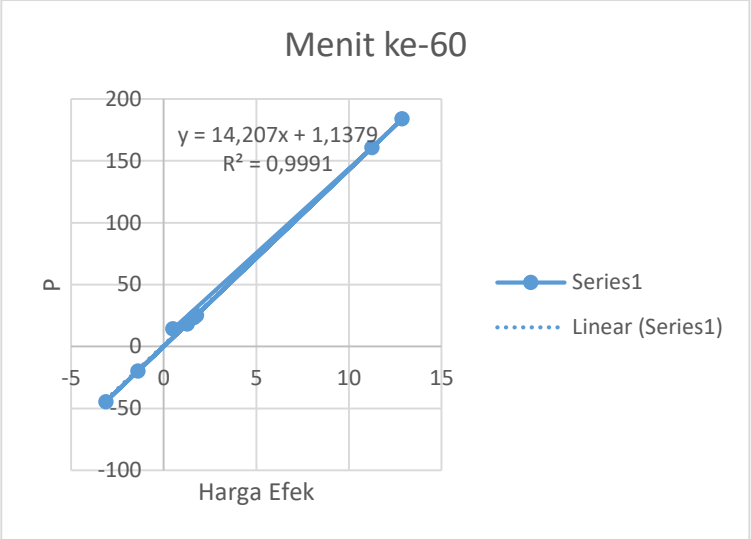
Run	Faktor			Respon	1	2	3	Pembagi	Efek	Hasil
	A	B	C							
1	-1	-1	-1	1,4496	14,7232	38,31592	127,1061	8	rata2	15,88826
2	1	-1	-1	13,2736	23,59272	88,79017	41,12913	4	A	10,28228
3	-1	1	-1	9,44296	43,5368	16,5308	10,58609	4	B	2,646523
4	1	1	-1	14,14976	45,25337	24,59833	-7,15727	4	AB	-1,78932
5	-1	-1	1	15,6088	11,824	8,86952	50,47425	4	C	12,61856
6	1	-1	1	27,928	4,7068	1,71657	8,06753	4	AC	2,016883
7	-1	1	1	16,48712	12,3192	-7,1172	-7,15295	4	BC	-1,78824
8	1	1	1	28,76625	12,27913	-0,04007	7,07713	4	ABC	1,769283

Efek	Hasil	Harga Efek	P
rata2	15,88826	0,5	14,28571
A	10,28228	9,782283	139,7469
B	2,646523	2,146523	30,66461
AB	-1,78932	-2,28932	-32,7045
C	12,61856	12,11856	173,1223
AC	2,016883	1,516883	21,66975
BC	-1,78824	-2,28824	-32,6891
ABC	1,769283	1,269283	18,13261



- Menit ke-60

Efek	Hasil	Harga Efek	P
rata2	17,46517	0,5	14,28571
A	11,73999	11,23999	160,5712
B	2,140785	1,640785	23,43979
AB	-2,62087	-3,12087	-44,5838
C	13,37195	12,87195	183,8849
AC	1,776295	1,276295	18,23279
BC	-0,8897	-1,38971	-19,8529
ABC	2,266745	1,766745	25,23921



3. Foto Praktikum

Hasil Ekstraksi

Running Ekstraksi

Uji Spektrofotometri