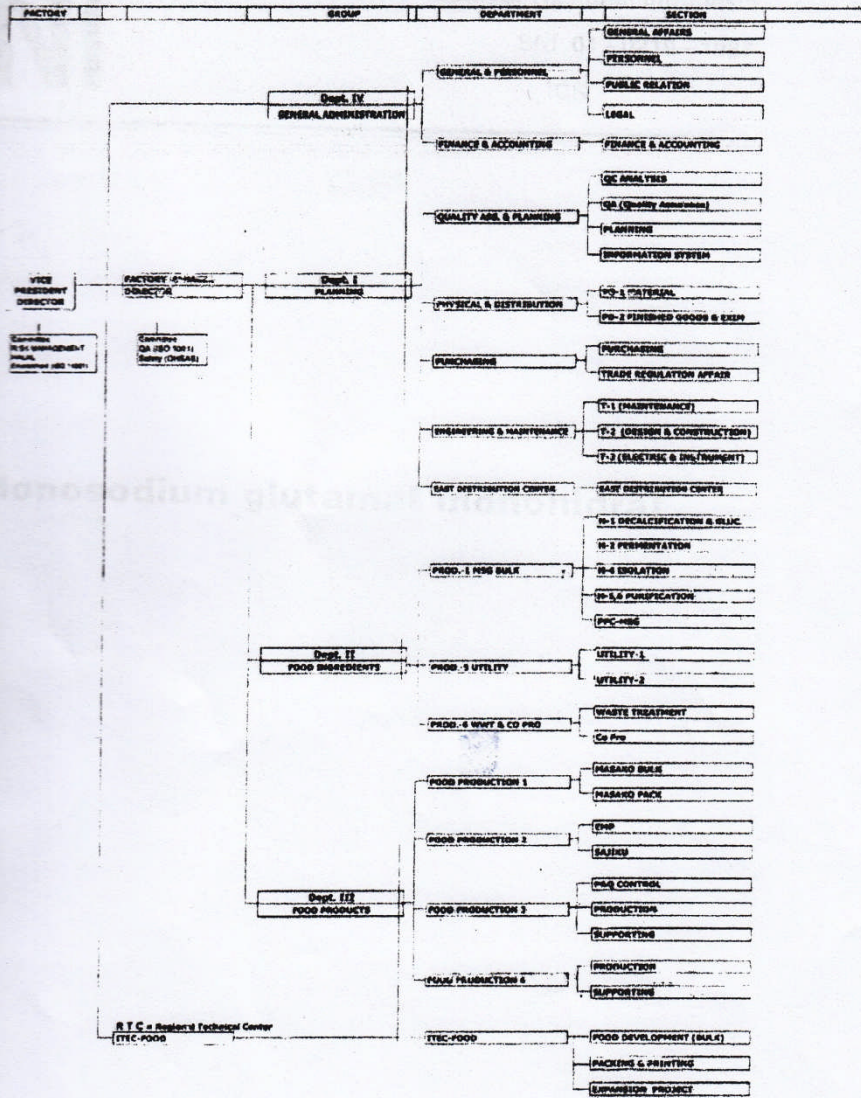


Lampiran 1

Struktur Organisasi PT. Ajinomoto Indonesia



### Lampiran 3

#### Hasil pengukuran larutan standar $\gamma$ ABA

Component : gaba  
Type : Single Peak Component  
Retention : 4.150min  
Window : 0.00s 3.00%

**Components -- Edit Component**

Component Type  
 Peak  Named Group  Timed Group

Name: gaba  
Retn Time: 4.150 min  
Abs Window: 0.00 s  
Rel Window: 3.00 %

Find largest peak in window  
 This component is a retention reference  
Reference:   
 This component is an internal standard  
ISTD:   
OK Cancel Next Prev

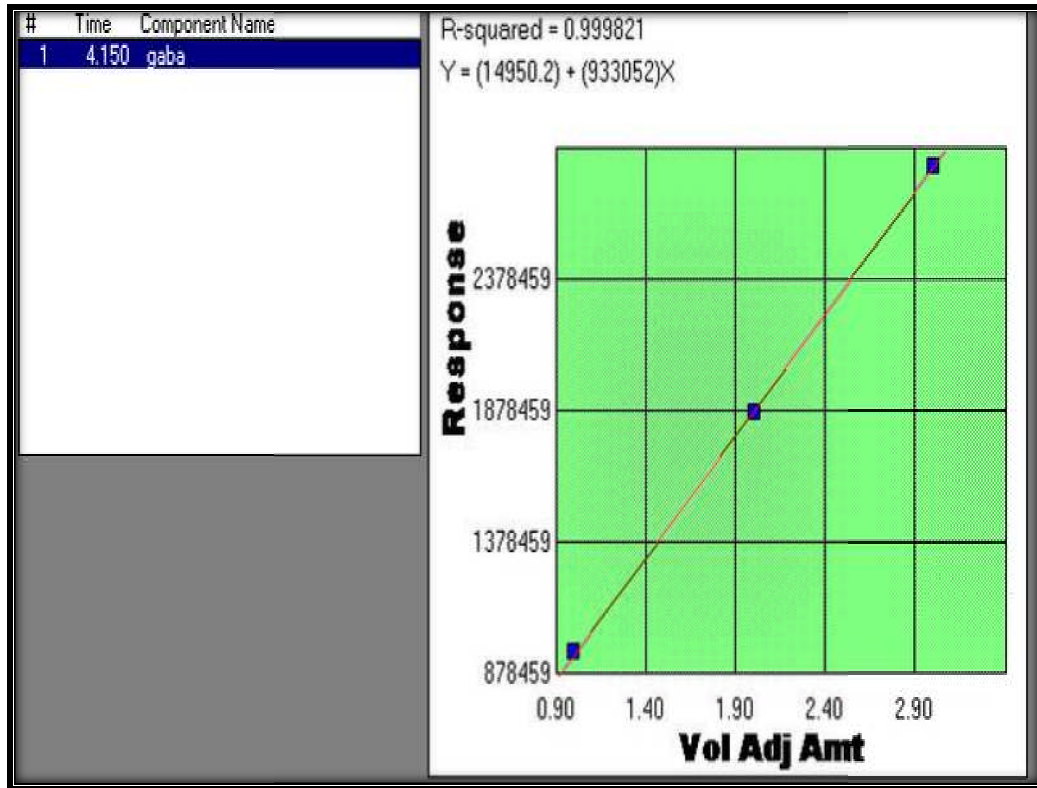
Calibration Type  
 Use Calibration Factor  
 Avg Calibration Factor  
 Calibrate By Reference  
 Use Curve User...  LIMS

Response  
 Area  
 Height

Cal Reference:   
Cal Factor:   
Curve Fit Type: 1st Order  
Scaling: None  
Weighting: None  
Origin  
 Include  
 Force

Level	Amt. (ng)	Area ( $\mu$ V·s)
1	1.0000	970269.4200
1	1.0000	970269.42
2	2.0000	1881370.50
3	3.0000	2806473.00
<new level>		

### Kurva kalibrasi larutan standar $\gamma$ ABA



## Lampiran 4

### Hasil pengukuran larutan standar PCA

The screenshot displays a software window titled "Components -- Edit Component" for a component named "pca". The window is divided into several sections for configuration.

**Component Summary:**

- Component: pca
- Type: Single Peak Component
- Retention: 7.810min
- Window: 0.00s 3.00%

**Component Type:**  Peak  Named Group  Timed Group

**Name:** pca

**Retn Time:** 7.810 min

**Abs Window:** 0.00 s

**Rel Window:** 3.00 %

Find largest peak in window

This component is a retention reference

**Reference:** [Dropdown]

This component is an internal standard

**ISTD:** [Dropdown]

**Calibration Type:**  Use Calibration Factor  Avg Calibration Factor  Calibrate By Reference  Use Curve

**Response:**  Area  Height

**Cal Reference:** [Dropdown]

**Cal Factor:** [Input]  $\mu\text{V}\cdot\text{s}/\text{ng}$

**Curve Fit Type:** 1st Order

**Scaling:** None

**Weighting:** None

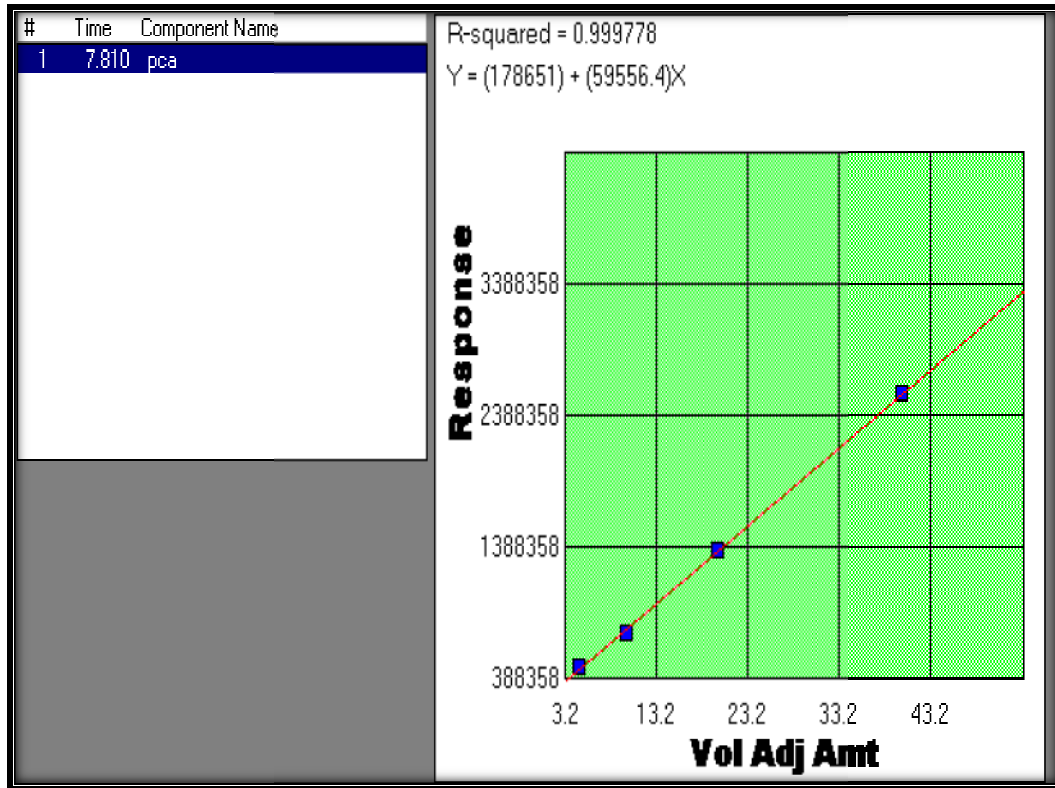
**Origin:**  Include  Force

**Level**    **Amt. (ng)**    **Area ( $\mu\text{V}\cdot\text{s}$ )**

Level	Amt. (ng)	Area ( $\mu\text{V}\cdot\text{s}$ )
1	5.0000	491941.5000
2	10.0000	756360.00
3	20.0000	1369423.50
4	40.0000	2563611.00

Buttons: OK, Cancel, Next, Prev

### Kurva kalibrasi larutan standar PCA



## Lampiran 5

### Penentuan konsentrasi PCA dalam sampel MSG

$$y = Ax + B$$

$$x = \frac{y+B}{A}$$

Keterangan :

A : Slope

B : Intersep

Y : Luas area sampel

x : Konsentrasi PCA dalam sampel (%)

### Penentuan PCA dalam MSG kode sampel LC

#### a. Produk MSG kode sampel LC

$$y = Ax + B$$

$$y = 62236x + 102725$$

$$x = \frac{831072 - 102725}{62236} \times \frac{100}{10} \times \frac{50}{25}$$

$$x = 234,06 \text{ ppm}$$

Kandungan PCA dalam sampel

$$x = \frac{234,06 \text{ ppm}}{10^6 \text{ ppm}} \times 100 \%$$

$$x = 0,02 \%$$

Jadi, kandungan PCA dalam MSG kode sampel LC sebesar 0,02 %.

#### b. Produk MSG kode sampel RC

$$y = Ax + B$$

$$y = 62236x + 102725$$

$$x = \frac{831072 - 102725}{62236} \times \frac{100}{10} \times \frac{50}{25}$$

$$x = 234,06 \text{ ppm}$$

Kandungan PCA dalam sampel

$$x = \frac{234,06 \text{ ppm}}{10^6 \text{ ppm}} \times 100 \%$$

$$x = 0,02 \%$$

Jadi, kandungan PCA dalam MSG kode sampel RC sebesar 0,02 %.

c. Produk MSG kode sampel FC

$$y = Ax + B$$

$$y = 62236x + 102725$$

$$x = \frac{1387242,58 - 102725}{62236} \times \frac{100}{10} \times \frac{50}{25}$$

$$x = 412,79 \text{ ppm}$$

Kandungan PCA dalam sampel

$$x = \frac{412,79 \text{ ppm}}{10^6 \text{ ppm}} \times 100 \%$$

$$x = 0,04 \%$$

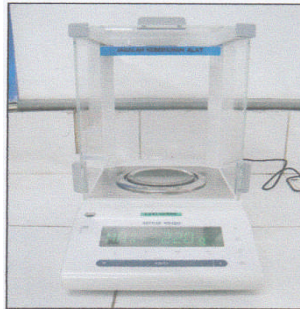
Jadi, kandungan PCA dalam MSG kode sampel FC sebesar 0,04 %.

## Lampiran 6

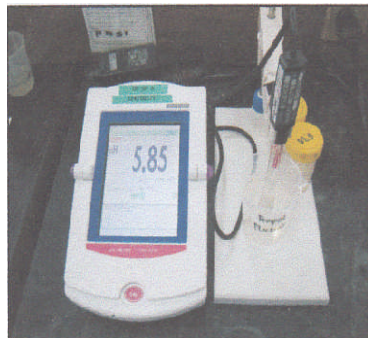
### Gambar instrumentasi yang digunakan pada analisis



Seperangkat alat Kromatografi Cair Kinerja Tinggi



Neraca *Mettler Toledo MS*



pH meter *TOA-DKK HM 30R*