

## Lampiran

### Lampiran 1. Surat Izin Penelitian

### Lampiran 2. Kode Etik



### Lampiran 3. Pengambilan pengolahan sampel

| Gambar                                                                              | Keterangan         |
|-------------------------------------------------------------------------------------|--------------------|
|    | Pengambilan sampel |
|                                                                                     | Perajangan         |
|  | Proses pengeringan |
|                                                                                     | Maserasi           |

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
|    | <p>Penyaringan</p>   |
|   | <p>Proses Rotari</p> |
|  | <p>Penguapan</p>     |

#### Lampiran 4. Perhitungan Bahan

##### 1. F1 Konsentrasi 8%

$$\text{Ektrak kulit jagung} = \frac{8}{100} \times 30 \text{ gr} = 2,4$$

$$\text{Karbopol} = \frac{1}{100} \times 30 = 0,3$$

$$\text{Trietolamin} = \frac{2}{100} \times 30 = 0,6$$

$$\text{Metil paraben} = \frac{0,2}{100} \times 30 = 0,06$$

$$\text{Gliserin} = \frac{15}{100} \times 30 = 4,5$$

$$\text{Propilenglikol} = \frac{0,25}{100} \times 30 = 0,075$$

$$\begin{aligned} \text{Aquades} &= (2,4+0,3+0,6+0,06+4,5+0,075) \\ &= 7,93 \end{aligned}$$

## 2. F2 Konsetrasi 10%

$$\text{Ektrak kulit jagung} = \frac{10}{100} \times 30 \text{ gr} = 3$$

$$\text{Karbopol} = \frac{1}{100} \times 30 = 0,3$$

$$\text{Trietolamin} = \frac{2}{100} \times 30 = 0,6$$

$$\text{Metil paraben} = \frac{0,2}{100} \times 30 = 0,06$$

$$\text{Gliserin} = \frac{15}{100} \times 30 = 4,5$$

$$\text{Propilenglikol} = \frac{0,25}{100} \times 30 = 0,075$$

$$\begin{aligned} \text{Aquades} &= (3+0,3+0,6+0,06+4,5+0,075) \\ &= 8,53 \end{aligned}$$

## 3. F3 Konsetrasi 12%

$$\text{Ektrak kulit jagung} = \frac{12}{100} \times 30 \text{ gr} = 3,6$$

$$\text{Karbopol} = \frac{1}{100} \times 30 = 0,3$$

$$\text{Trietolamin} = \frac{2}{100} \times 30 = 0,6$$

$$\text{Metil paraben} = \frac{0,2}{100} \times 30 = 0,06$$

$$\text{Gliserin} = \frac{15}{100} \times 30 = 4,5$$

$$\text{Propilenglikol} = \frac{0,25}{100} \times 30 = 0,075$$

$$\text{Aquades} = (3,6 + 0,3 + 0,6 + 0,06 + 4,5 + 0,075)$$

$$= 9,13$$

**Lampiran 5.** Bahan yang digunakan dalam formulasi sediaan gel

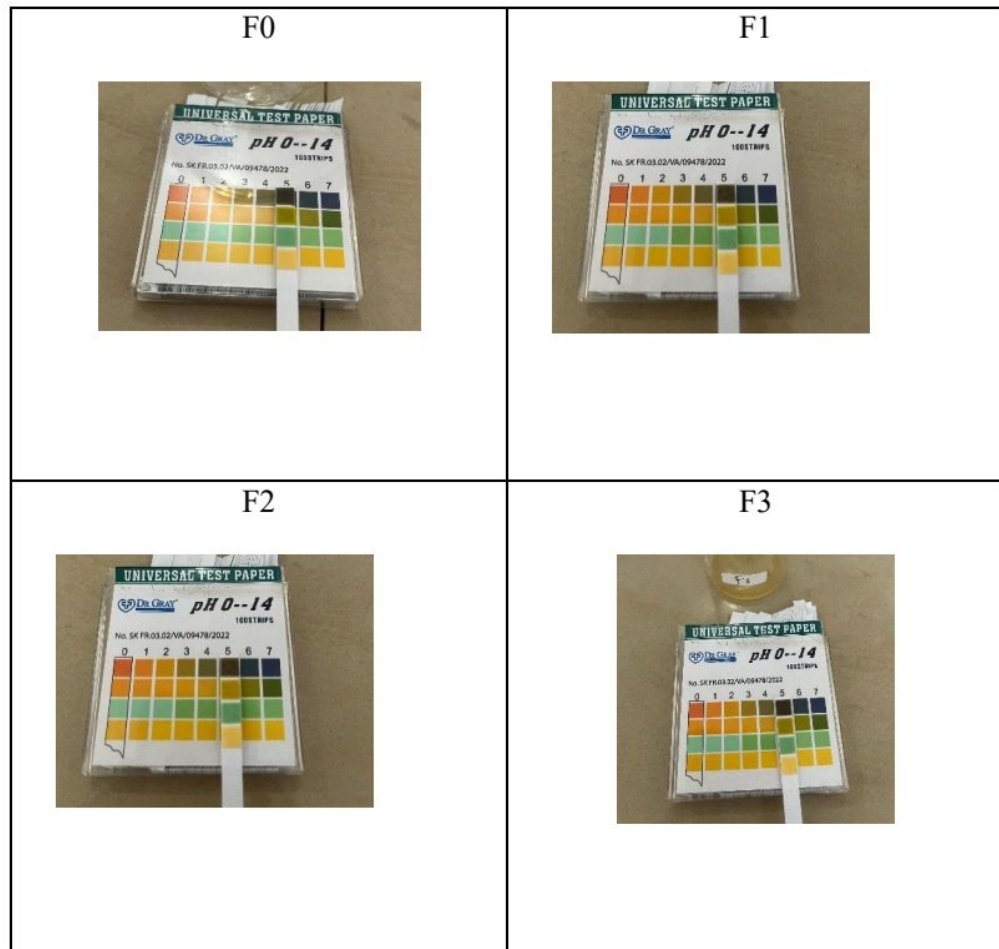
|                                                                                     |                   |
|-------------------------------------------------------------------------------------|-------------------|
|   | Carbopol          |
|  | Gliserin          |
|  | TEA (Trietolamin) |

|                                                                                    |               |
|------------------------------------------------------------------------------------|---------------|
|   | Metil Paraben |
|  | Aquadest      |

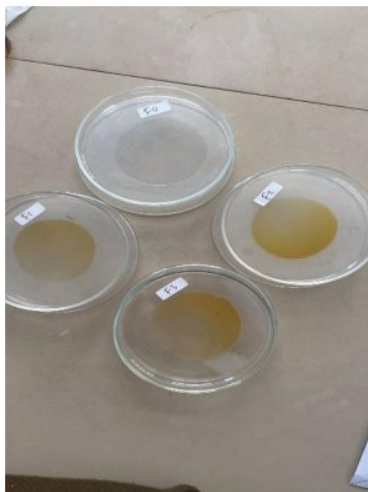
#### Lampiran 6 Sediaan Gel

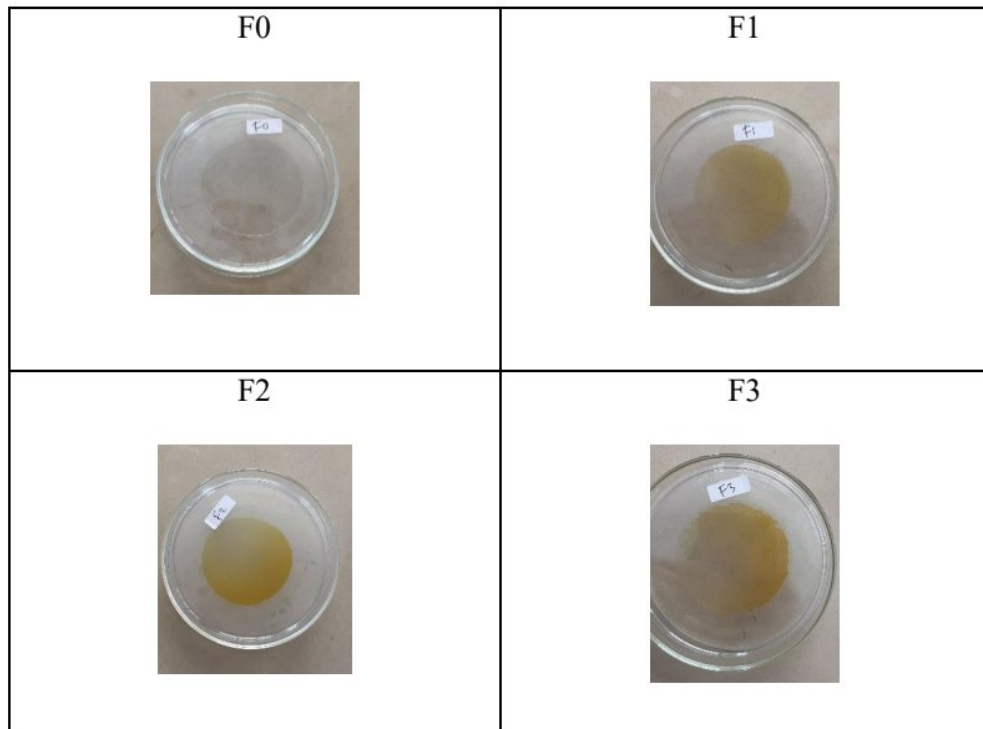
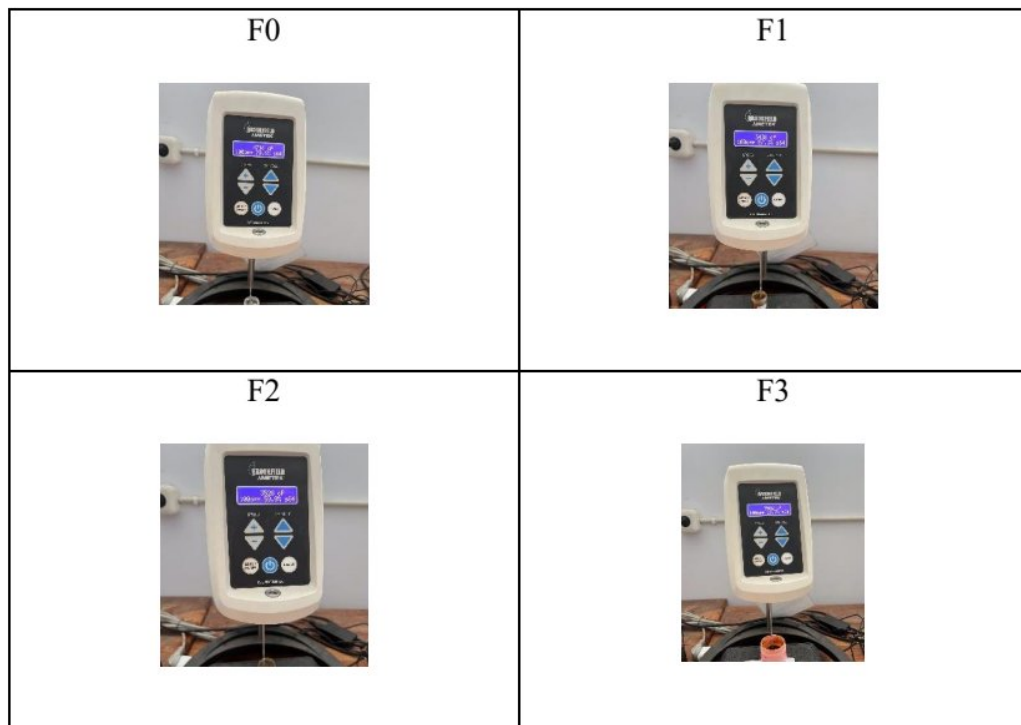
|                                                                                                  |                                                                                                   |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>F0</b><br> | <b>F1</b><br> |
| <b>F2</b><br> | <b>F3</b><br> |

### Lampiran 6. Hasil Uji pH



### Lampiran 7. Uji homogenitas



**Lampiran 8. Hasil Uji Daya Sebar****Lampiran 8. Uji daya lekat**

### Lampiran 9 Pengujian pada kelinci

|                                                                                     |                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------|
|    | <p>Sebelum dicukur</p>                    |
|   | <p>Sesudah dicukur</p>                    |
|  | <p>Penginduksian menggunakan lidocain</p> |
|  | <p>Pembuatan Luka bakar</p>               |

|                                                                                   |                              |
|-----------------------------------------------------------------------------------|------------------------------|
|  | <p>Luka bakar hari ke-0</p>  |
|  | <p>Luka bakar hari ke-15</p> |

#### Lampiran 10 Perhitungan Dosis Anastesi Lidocain 2%

1. Dosis lidocain untuk manusia :  
Rentang dosis : 5mg-300 mg per 70kg berat badan
2. -Konversi dosis untuk kelinci : 0,076  
-Berat kelinci : 1500 g (1,5 kg)
3. Perhitungan dosis kelinci  
-Dosis minimum :  $5\text{mg} \times 0,76 = 0,38\text{mg}$   
-Dosis Maksimum :  $300\text{ mg} \times 0,76 = 22,8\text{ mg}$
4. Sediaan lidocain (Kekuatan sediaan)  
-Konsentrasi 2% (20mg/ml)
5. Perhitungan Volume injeksi  
-Dosis minimum :  $0,38\text{mg} / (20\text{mg/ml}) = 0,019\text{ ml}$  untuk 1,5 kg kelinci  
-Dosis maksimum :  $22,8\text{mg} / (20\text{mg/ml}) = 1,14\text{ ml}$  untuk 1,5 kg kelinci

6. Konversi ke dosis per kg berat badan :

-dosis minimum :  $0,019 \text{ ml} \times (1000\text{g}/1500\text{g}) = 0,012 \text{ ml/kg}$

-dosis maksimum :  $1,14 \text{ ml} \times (1000\text{g}/1500\text{g}) = 0,76 \text{ ml/kg}$

Jadi rentang dosis lidocain untuk kelinci adalah 0,012 ml/kg sampai 0,76 ml/kg berat badan.

Lampiran Penentuan Jumlah prob

## Lampiran 10. Aktivitas Luka Bakar

### 1. Pengukuran diameter luka bakar

| Kelinci | Perlakuan       |   |      | Hari<br>ke- |      |      |      |
|---------|-----------------|---|------|-------------|------|------|------|
|         |                 | 0 | 3    | 6           | 9    | 12   | 15   |
| 1.      | Kontrol positif | 2 | 1,67 | 1,6         | 1,06 | 0    | 0    |
|         | Kontrol negatif | 2 | 1,95 | 1,85        | 1,8  | 1,70 | 1,7  |
|         | F1 8%           | 2 | 1,8  | 1,65        | 1,4  | 1,3  | 1    |
|         | F2 10%          | 2 | 1,8  | 1,5         | 1,2  | 1    | 0,8  |
|         | F3 12%          | 2 | 1,7  | 1,2         | 1    | 0,95 | 0,80 |
| 2.      | Kontrol positif | 2 | 1,76 | 1,5         | 1,2  | 0    | 0    |
|         | Kontrol negatif | 2 | 1,96 | 1,87        | 1,8  | 1,7  | 1,6  |
|         | F1 8%           | 2 | 1,9  | 1,7         | 1,63 | 1,5  | 0,9  |
|         | F2 10%          | 2 | 1,75 | 1,45        | 1,34 | 1,2  | 0,89 |
|         | F3 12%          | 2 | 1,6  | 1,5         | 1,2  | 0,93 | 0,77 |
| 3.      | Kontrol positif | 2 | 1,7  | 1,5         | 1,1  | 0    | 0    |
|         | Kontrol negatif | 2 | 1,9  | 1,87        | 1,76 | 1,6  | 1,5  |
|         | F1 8%           | 2 | 1,8  | 1,7         | 1,55 | 1,4  | 0,41 |
|         | F210%           | 2 | 1,70 | 1,7         | 1,65 | 1,5  | 0,47 |

|    |                 |   |      |      |      |      |      |
|----|-----------------|---|------|------|------|------|------|
|    | F312%           | 2 | 1,7  | 1,6  | 1,5  | 0,80 | 0    |
| 4. | Kontrol positif | 2 | 1,7  | 1,5  | 1,1  | 0    | 0    |
|    | Kontrol negatif | 2 | 1,9  | 1,89 | 1,8  | 1,7  | 1,6  |
|    | F1 8%           | 2 | 1,87 | 1,7  | 1,5  | 1,42 | 1,1  |
|    | F2 10%          | 2 | 1,78 | 1,68 | 1,5  | 1,3  | 0,47 |
|    | F3 12%          | 2 | 1,70 | 1,7  | 1,2  | 0,5  | 0    |
| 5. | Kontrol positif | 2 | 1,7  | 1,5  | 1    | 0    | 0    |
|    | Kontrol negatif | 2 | 1,93 | 1,88 | 1,7  | 1,65 | 1,5  |
|    | F1 8%           | 2 | 1,83 | 1,7  | 1,61 | 1,56 | 1,2  |
|    | F2 10%          | 2 | 1,72 | 1,62 | 1,5  | 1,42 | 1    |
|    | F3 12%          | 2 | 1,70 | 1,60 | 1,55 | 1,1  | 0    |

## 7. Hasil rata-rata diameter luka bakar

### A. Konttrol Positif

| Hewan<br>Coba |   |      | Hari ke-0 |      |    |    |
|---------------|---|------|-----------|------|----|----|
|               | 0 | 3    | 6         | 9    | 12 | 15 |
| I             | 2 | 1,67 | 1,6       | 1,06 | 0  | 0  |
| II            | 2 | 1,76 | 1,5       | 1,2  | 0  | 0  |
| III           | 2 | 1,7  | 1,5       | 1,2  | 0  | 0  |

|           |   |      |      |      |   |   |
|-----------|---|------|------|------|---|---|
| IV        | 2 | 1,7  | 1,5  | 1,1  | 0 | 0 |
| V         | 2 | 1,7  | 1,5  | 1    | 0 | 0 |
| Rata-rata | 2 | 1,70 | 1,52 | 1,11 | 0 | 0 |

#### B. Kontrol negatif

| Hewan<br>Coba |   |      | Hari ke-0 |      |      |      |
|---------------|---|------|-----------|------|------|------|
|               | 0 | 3    | 6         | 9    | 12   | 15   |
| I             | 2 | 1,95 | 1,85      | 1,8  | 1,70 | 1,7  |
| II            | 2 | 1,96 | 1,87      | 1,8  | 1,7  | 1,6  |
| III           | 2 | 1,9  | 1,87      | 1,76 | 1,6  | 1,5  |
| IV            | 2 | 1,9  | 1,89      | 1,8  | 1,7  | 1,6  |
| V             | 2 | 1,93 | 1,88      | 1,7  | 1,65 | 1,2  |
| Rata-rata     | 2 | 1,92 | 1,87      | 1,77 | 1,67 | 1,52 |

#### C. F1 (8%)

| Hewan<br>Coba |   |      | Hari ke-0 |      |     |      |
|---------------|---|------|-----------|------|-----|------|
|               | 0 | 3    | 6         | 9    | 12  | 15   |
| I             | 2 | 1,8  | 1,65      | 1,4  | 1   | 0,8  |
| II            | 2 | 1,9  | 1,7       | 1,63 | 1,5 | 0,9  |
| III           | 2 | 1,8  | 1,7       | 1,55 | 1,4 | 0,41 |
| IV            | 2 | 1,87 | 1,68      | 1,5  | 1,3 | 0,47 |

|           |   |      |      |      |      |      |
|-----------|---|------|------|------|------|------|
| V         | 2 | 1,83 | 1,7  | 1,61 | 1,56 | 1,2  |
| Rata-rata | 2 | 1,84 | 1,68 | 1,53 | 1,12 | 0,75 |

## D. F2 10%

| Hewan<br>Coba |   |      | Hari ke-0 |      |      |      |
|---------------|---|------|-----------|------|------|------|
|               | 0 | 3    | 6         | 9    | 12   | 15   |
| I             | 2 | 1,8  | 1,5       | 1,2  | 1    | 0,8  |
| II            | 2 | 1,75 | 1,45      | 1,34 | 1,2  | 0,89 |
| III           | 2 | 1,70 | 1,7       | 1,65 | 1,5  | 0,47 |
| IV            | 2 | 1,78 | 1,68      | 1,5  | 1,3  | 0,47 |
| V             | 2 | 1,72 | 1,62      | 1,5  | 1,42 | 1    |
| Rata-rata     | 2 | 1,75 | 1,59      | 1,43 | 1,23 | 0,72 |

## E. F3 12%

| Hewan<br>Coba |   |      | Hari ke-0 |      |      |      |
|---------------|---|------|-----------|------|------|------|
|               | 0 | 3    | 6         | 9    | 12   | 15   |
| I             | 2 | 1,7  | 1,2       | 1    | 0,95 | 0,80 |
| II            | 2 | 1,6  | 1,5       | 1,2  | 0,93 | 0,77 |
| III           | 2 | 1,7  | 1,5       | 1,1  | 0,80 | 0    |
| IV            | 2 | 1,70 | 1,7       | 1,2  | 0,5  | 0    |
| V             | 2 | 1,70 | 1,60      | 1,55 | 1,1  | 0    |

|           |   |      |     |      |      |      |
|-----------|---|------|-----|------|------|------|
| Rata-rata | 2 | 1,68 | 1,5 | 1,21 | 0,85 | 0,31 |
|-----------|---|------|-----|------|------|------|

### Lampiran Anova

#### Multiple Comparisons

Dependent Variable:

|                |             |             | Mean<br>Difference<br>(I-J) | Std. Error | Sig.  | 95% Confidence<br>Interval |                |
|----------------|-------------|-------------|-----------------------------|------------|-------|----------------------------|----------------|
| (I) LUKA BAKAR |             |             |                             |            |       | Lower<br>Bound             | Upper<br>Bound |
| Tukey<br>HSD   | Kontrol (+) | Kontrol (-) | 76.00000 <sup>*</sup>       | 8,79704    | 0,000 | 49,6759                    | 102,3241       |
|                |             | F1          | 37.80000 <sup>*</sup>       | 8,79704    | 0,003 | 11,4759                    | 64,1241        |
|                |             | F2          | 36.30000 <sup>*</sup>       | 8,79704    | 0,004 | 9,9759                     | 62,6241        |
|                |             | F3          | 15,70000                    | 8,79704    | 0,409 | -10,6241                   | 42,0241        |
|                | Kontrol (-) | Kontrol (+) | -<br>76.00000 <sup>*</sup>  | 8,79704    | 0,000 | -102,3241                  | -49,6759       |
|                |             | F1          | -<br>38.20000 <sup>*</sup>  | 8,79704    | 0,003 | -64,5241                   | -11,8759       |
|                |             | F2          | -<br>39.70000 <sup>*</sup>  | 8,79704    | 0,002 | -66,0241                   | -13,3759       |
|                |             | F3          | -<br>60.30000 <sup>*</sup>  | 8,79704    | 0,000 | -86,6241                   | -33,9759       |
|                | F1          | Kontrol (+) | -<br>37.80000 <sup>*</sup>  | 8,79704    | 0,003 | -64,1241                   | -11,4759       |
|                |             | Kontrol (-) | 38.20000 <sup>*</sup>       | 8,79704    | 0,003 | 11,8759                    | 64,5241        |
|                |             | F2          | -1,50000                    | 8,79704    | 1,000 | -27,8241                   | 24,8241        |
|                |             | F3          | -22,10000                   | 8,79704    | 0,127 | -48,4241                   | 4,2241         |
|                | F2          | Kontrol (+) | -<br>36.30000 <sup>*</sup>  | 8,79704    | 0,004 | -62,6241                   | -9,9759        |
|                |             | Kontrol (-) | 39.70000 <sup>*</sup>       | 8,79704    | 0,002 | 13,3759                    | 66,0241        |
|                |             | F1          | 1,50000                     | 8,79704    | 1,000 | -24,8241                   | 27,8241        |
|                |             | F3          | -20,60000                   | 8,79704    | 0,173 | -46,9241                   | 5,7241         |
|                | F3          | Kontrol (+) | -15,70000                   | 8,79704    | 0,409 | -42,0241                   | 10,6241        |
|                |             | Kontrol (-) | 60.30000 <sup>*</sup>       | 8,79704    | 0,000 | 33,9759                    | 86,6241        |
|                |             | F1          | 22,10000                    | 8,79704    | 0,127 | -4,2241                    | 48,4241        |
|                |             | F2          | 20,60000                    | 8,79704    | 0,173 | -5,7241                    | 46,9241        |

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**Rezy Kemilau Putri**

**(1) PENGEMBANGAN TOPIKAL GEL PADA LIMBAH KULIT JAGUNG (Zea Mays) UNTUK TERAPI LUKA BAKAR PADA KELI...**

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