

## LAMPIRAN

Lampiran 1

Konsentrasi 2%

|            |  |
|------------|--|
| Blanko     |  |
|            |  |
| Enzim saja |  |
|            |  |
| pH 1       |  |
|            |  |
| pH 3       |  |
|            |  |
| pH 5       |  |
|            |  |
| pH 7       |  |

Konsentras 2%

|            |  |
|------------|--|
| Blanko     |  |
|            |  |
| Enzim saja |  |
|            |  |
| pH 1       |  |
|            |  |
| pH 3       |  |
|            |  |
| pH 5       |  |
|            |  |
| pH 7       |  |

## Lampiran 2

### Data Pengurangan berat kain

#### 1. Enzim saja konsentrasi 2%

Berat awal kain = 40,71 gram

Berat akhir = 37 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{40,71-37}{40,71} \times 100\% \\ = 9,11 \%$$

#### 2. Enzim saja konsentrasi 4%

Berat awal kain = 40,98 gram

Berat akhir = 37,12 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{40,98-37,12}{40,98} \times 100\% \\ = 9,43 \%$$

#### 3. Konsentrasi 2% pH 1

Berat awal kain = 40,89 gram

Berat akhir = 36,15 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{40,89-36,15}{40,89} \times 100\% \\ = 11,59\%$$

#### 4. Konsentrasi 2% pH 3

Berat awal kain = 41,29 gram

Berat akhir = 37,18 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41,29-37,18}{41,29} \times 100\% \\ = 9,95 \%$$

#### 5. Konsentrasi 2% pH 5

Berat awal kain = 41,71 gram

Berat akhir = 36,56 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41,71-36,56}{41,71} \times 100\% \\ = 12,34 \%$$

#### 6. Konsentrasi 2% pH 7

Berat awal kain = 40,69 gram

Berat akhir = 37,24 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{40,69-37,24}{40,69} \times 100\% \\ = 7,66\%$$

7. Konsentrasi 4% pH 1

Berat awal kain = 41,86 gram

Berat akhir = 36,84 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41,86 - 36,84}{41,86} \times 100\%$$

$$= 11,99 \%$$

8. Konsentrasi 4% pH 3

Berat awal kain = 41,18 gram

Berat akhir = 37 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41,18 - 37}{41,18} \times 100\%$$

$$= 10,15 \%$$

9. Konsentrasi 4% pH 5

Berat awal kain = 41,32 gram

Berat akhir = 35,95 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41,32 - 35,95}{41,32} \times 100\%$$

$$= 12,99 \%$$

10. Konsentrasi 4% pH 7

Berat awal kain = 41 gram

Berat akhir = 37,79 gram

$$\text{Pengurangan Berat kain (\%)} = \frac{41 - 37,79}{41} \times 100\%$$

$$= 7,82 \%$$

Data kekuatan tarik kain

| Pengukuran | Kekuatan Tarik (kg) |       |
|------------|---------------------|-------|
|            | Blank               |       |
|            | Lusi                | Pakan |
| 1          | 70,21               | 50,71 |
| 2          | 70,32               | 50,87 |
| 3          | 70,23               | 51,24 |
| 4          | 70,15               | 52,05 |
| 5          | 69,45               | 51,42 |
| Rata-rata  | 70,72               | 51,22 |

| Pengukuran | Enzim saja konsentrasi 2% |       |
|------------|---------------------------|-------|
|            | Lusi                      | Pakan |
| 1          | 66,29                     | 44,78 |
| 2          | 66,31                     | 45,51 |
| 3          | 65,98                     | 44,47 |
| 4          | 66,48                     | 44,41 |
| 5          | 65,97                     | 46,88 |
| Rata-rata  | 66,29                     | 45,21 |

| Pengukuran | Enzim saja konsentrasi 4% |       |
|------------|---------------------------|-------|
|            | Lusi                      | Pakan |
| 1          | 65,42                     | 44,33 |
| 2          | 65,98                     | 43,65 |
| 3          | 67,55                     | 44,73 |
| 4          | 66,42                     | 43,21 |
| 5          | 64,12                     | 44,85 |
| Rata-rata  | 65,93                     | 44,19 |

| Variasi pH | Konsentrasi 2% |       | Konsentrasi 4% |       |
|------------|----------------|-------|----------------|-------|
|            | Lusi           | Pakan | Lusi           | Pakan |
| 1          | 60,98          | 41,78 | 61,62          | 41,21 |
|            | 64,48          | 42,68 | 62,25          | 40,89 |
|            | 59,91          | 42,41 | 61,21          | 41,32 |
|            | 62,81          | 41,82 | 61,55          | 41,67 |
|            | 62,15          | 40,89 | 60,41          | 40,61 |
| Rata-rata  | 62,46          | 41,98 | 61,48          | 41,16 |
|            | Lusi           | Pakan | Lusi           | Pakan |
| 3          | 66,78          | 45,87 | 64,95          | 43,68 |
|            | 65,92          | 43,96 | 65,15          | 43,99 |
|            | 64,68          | 44,61 | 64,33          | 43,92 |
|            | 67,04          | 44,66 | 65,02          | 42,87 |
|            | 64,61          | 45,87 | 64,87          | 43,77 |
| Rata-rata  | 65,83          | 44,98 | 64,72          | 43,79 |
|            | Lusi           | Pakan | Lusi           | Pakan |
| 5          | 60,88          | 38,77 | 58,67          | 39,25 |
|            | 60,55          | 41,08 | 61,31          | 38,63 |
|            | 62,21          | 39,83 | 59,42          | 38,96 |
|            | 61,83          | 39,91 | 58,61          | 40,15 |
|            | 60,61          | 41,11 | 58,45          | 39,32 |
| Rata-rata  | 61,22          | 40,16 | 59,28          | 39,21 |
|            | Lusi           | Pakan | Lusi           | Pakan |
| 7          | 70,59          | 49,69 | 68,21          | 47,22 |
|            | 67,72          | 45,37 | 67,27          | 48,76 |
|            | 68,78          | 48,44 | 69,15          | 47,83 |
|            | 66,99          | 50,28 | 68,12          | 48,43 |
|            | 69,61          | 48,12 | 68,18          | 46,21 |
| Rata-rata  | 68,85          | 48,53 | 68,14          | 47,69 |

Data nilai ketuaan warna kain denim dengan nilai K/S

|           |  |
|-----------|--|
| Nilai K/S |  |
| Blank     |  |
| 22,88     |  |

| Enzim saja | Konsentrasi 2% | Konsentrasi 4% |
|------------|----------------|----------------|
|            | 18,8           | 18,99          |
|            | 18,73          | 17,74          |
|            | 18,26          | 17,97          |
|            | 18,08          | 17,67          |
|            | 19,06          | 18,26          |
| Rata-rata  | 18,586         | 18,126         |

| Variasi pH | Konsentrasi 2% | Konsentrasi 4% |
|------------|----------------|----------------|
| 1          | 17,29          | 16,78          |
|            | 16,87          | 17,11          |
|            | 17,51          | 16,96          |
|            | 17,21          | 16,52          |
|            | 17,18          | 17,87          |
| Rata-rata  | 17,212         | 17,048         |

| Variasi pH | Konsentrasi 2% | Konsentrasi 4% |
|------------|----------------|----------------|
| 3          | 18,2           | 17,67          |
|            | 17,98          | 18,87          |
|            | 18,09          | 17,4           |
|            | 18,97          | 18,62          |
|            | 17,53          | 17,67          |
| Rata-rata  | 18,154         | 18,046         |

| Variasi pH | Konsentrasi 2% | Konsentrasi 4% |
|------------|----------------|----------------|
| 5          | 15,96          | 15,55          |
|            | 16,82          | 15,39          |
|            | 16,89          | 16,29          |
|            | 15,67          | 15,54          |
|            | 15,89          | 16,59          |
| Rata-rata  | 16,246         | 15,872         |

| Variasi pH | Konsentrasi 2% | Konsentrasi 4% |
|------------|----------------|----------------|
| 7          | 20,03          | 19,06          |
|            | 19,83          | 19,22          |
|            | 19,77          | 18,14          |
|            | 19,66          | 19,67          |
|            | 18,98          | 19,87          |
| Rata-rata  | 19,654         | 19,192         |