

## LAMPIRAN

### Lampiran 1

#### Pembuatan ekstrak





## Lampiran 2

### Pembuatan media agar





### Lampiran 3

Sterilisasi alat



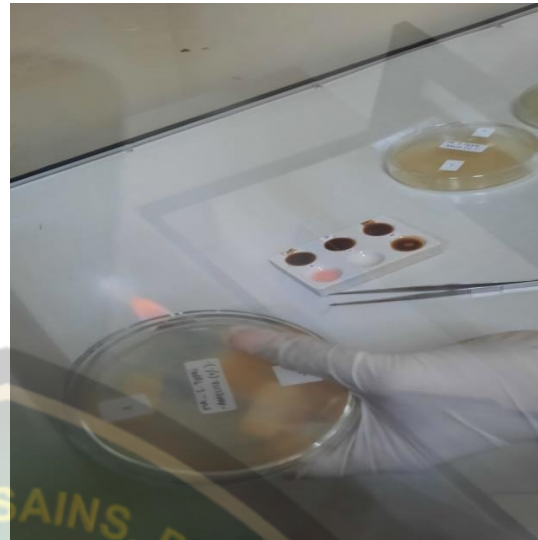
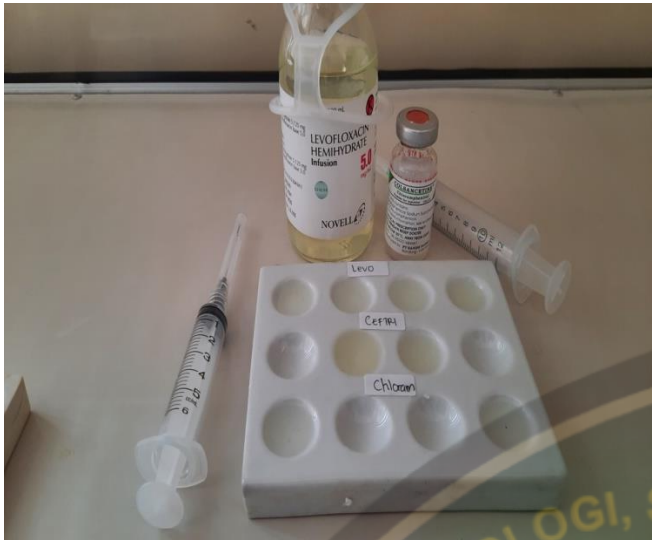
## Lampiran 4

Uji Bebas Etanol



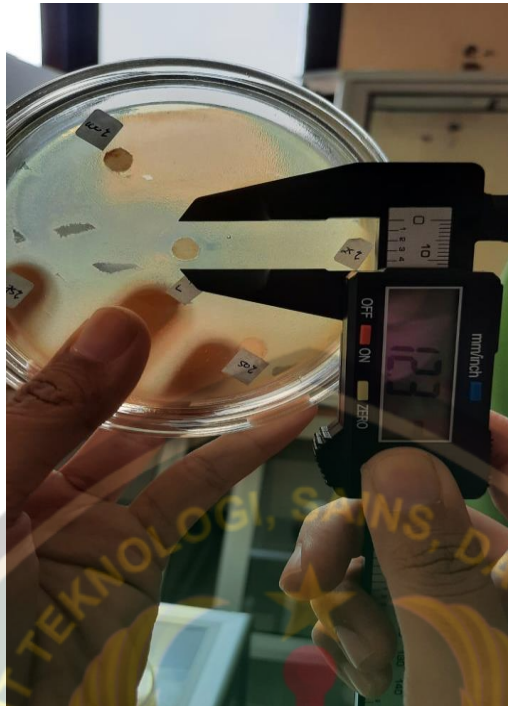
## Lampiran 5

### Uji aktivitas antibakteri



## Lampiran 6

Hasil uji antibakteri antibiotik hari ke 1



Hasil uji antibakteri antibiotik hari ke 2





Hasil uji antibakteri ekstrak konsentrasi 25%

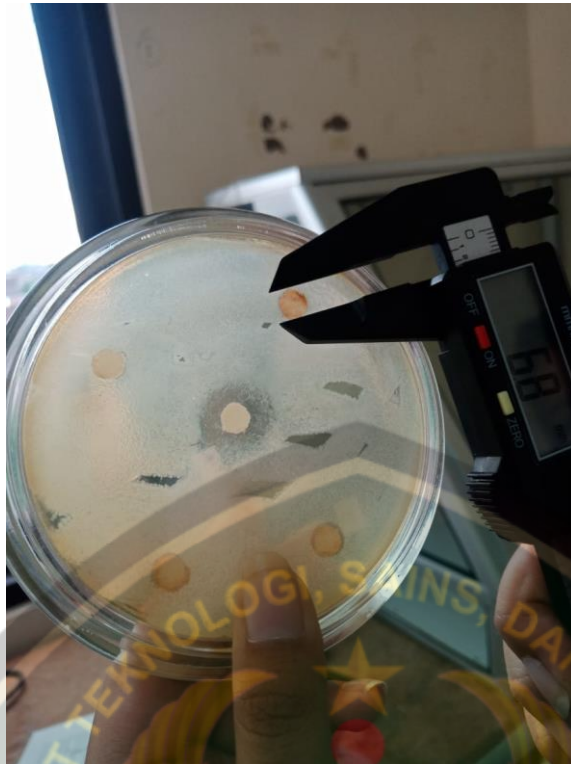


Hasil uji antibakteri ekstrak konsentrasi 50%





Hasil uji antibakteri ekstrak dengan konsentrasi 75%



Hasil uji antibakteri ekstrak dengan konsentrasi 100%



## Lampiran 7

### Surat determinasi tanaman

**PEMERINTAH PROVINSI JAWA TIMUR**  
**DINAS KESEHATAN**  
**UPT LABORATORIUM HERBAL MATERIA MEDICA BATU**  
Jalan Labor No 87 Telp. (0341) 593396, e-mail: [materiamedicabatu@jatimprov.go.id](mailto:materiamedicabatu@jatimprov.go.id)  
**KOTA BATU 65313**

Nomor : 074/ 325/ 102.7-A/ 2021  
Sifat : Biasa  
Perihal : Determinasi Tanaman Jeringau

Menenuhi permohonan saudara :

Nama : AMELITA FIRMAN PRAMISTY  
NIM : 184046  
Fakultas : FARMASI ITS RS DR. SOEPROAEN MALANG

1. Perihal determinasi tanaman jeringau

Kingdom : Plantae  
Divisi : Magnoliophyta  
Sub divisi : Angiospermae  
Kelas : Monocotyledoneae  
Bangsa : Arales  
Suku : Araceae  
Marga : Acorus  
Jenis : *Acorus calamus* L.  
Sinonim :  
Nama Daerah :

Kunci Determinasi :  
1b-2b-3b-4b-5b-6b-7b-8b-9b-10b-11b-12b-13b-14a-15b-197b-208a-209a

2. Morfologi :  
Habitat: Herba, tahunan, tinggi ±75 cm. Batang: Basah, pendek, membentuk rimpang, puth kotor. Daun: Tunggal, benluk lanset, ujung runcing, tepi rata, pangkal memeluk batang, panjang ±60 cm, lebar ±5 cm, pertulangan sejajar, hijau. Bunga: Majemuk, bentuk bongkol, ujung meruncing, panjang 20-25 cm, di ketiak daun, tangkai sari panjang ±2,75 mm, kepala sari panjang ±2,75 mm, kepala sari panjang ±0,5 mm, putik 1-1,5 mm, kepala putik meruncing, panjang ±0,5 mm, mahkota bulat panjang, panjang 1-1,5 mm, puth. Akar: Serabut, coklat.

3. Bagian yang digunakan : Rimpang.


4. Penggunaan : Penelitian KTI.

5. Daftar Pustaka :  
• Van Steenis, CGGJ. 2008. *FLORA untuk Sekolah di Indonesia*. Pradnya Paramita, Jakarta.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 30 Maret 2021

KEPALA UPT LABORATORIUM HERBAL  
MATERIA MEDICA BATU

  
ACHMAD MARBURY, SKM, M.Kei.  
PES. PEMBINA  
NIP. 19680203 199203 1 004

clmfa

## Lampiran 8

### Surat Keaslian Bakteri

**ATCC**  
Nucleic Acid Product Sheet

***Salmonella enterica* subsp. *enterica* (ex Kauffmann and Edwards) Le Minor and Popoff serovar Typhimurium (ATCC® 700720D-5™)**

Please read this FIRST

**Biosafety Level**  
1

**Intended Use**  
This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

**Citation of Strain**  
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Salmonella enterica* subsp. *enterica* (ex Kauffmann and Edwards) Le Minor and Popoff serovar Typhimurium (ATCC® 700720D-5™)

**Nucleic Acid Information**  
At least 5 µg in 1X TE buffer  
OD<sub>260</sub>/OD<sub>280</sub> 1.8 to 2.0

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)  
800.638.8637 or 703.365.2700  
Fax: 703.365.2700  
E-mail: [info@atcc.org](mailto:info@atcc.org)  
Or contact your local distributor

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**Description**  
Source: *Salmonella enterica* subsp. *enterica* (ex Kauffmann and Edwards) Le Minor and Popoff serovar Typhimurium  
Designation: Genomic DNA from *Salmonella enterica* subsp. *enterica* serovar Typhimurium Strain LT2 (ATCC® 700720™)  
Description: Genomic DNA isolated from *Salmonella enterica* subsp. *enterica* serovar Typhimurium strain LT2. This bacterial strain is also available as ATCC Catalog No. 700720™.  
Note: Genomic DNA isolated from bacteria is appropriate for PCR\* and other molecular biology applications.  
\*The polymerase chain reaction (PCR) process is covered by patents owned by Hoffmann-La Roche Inc. Use of the PCR process requires a license.  
Depositor of Source Strain: KE Sanderson

**Batch-Specific Information**  
Refer to the Certificate of Analysis for batch-specific test results.

**Preparation Procedure**  
Centrifuge tube prior to opening to prevent loss of pelleted material.  
1. Rehydrate contents of vial with molecular grade H<sub>2</sub>O.  
2. Place vial at 37°C for 1 hour or at 2°C to 8°C overnight.  
3. For more complete rehydration and to fully recover DNA, incubate the sample overnight at 4°C while rocking; then incubate for 1 hour at 55°C. Resuspending the dried DNA in ≥250 µL may give better results.

**Quality Control Information**  
1. Bacterial genomic DNA is provided in a dried form. Store at +2°C to 6°C upon receipt. Store at -20°C if stored for more than 6 months. **Note:** Do not store in freezers with a defrost cycle. This will expose the product to increased temperatures.  
2. Total DNA by PicoGreen® measurement was found to be approximately 5 µg.  
3. Purity OD<sub>260</sub>/OD<sub>280</sub> ratio.  
4. Integrity of DNA was determined by electrophoresis on a 1% agarose gel stained with SYBR Safe™ and was found to be of high molecular weight.  
5. No RNA was detected by electrophoresis.  
6. Functional activity was confirmed by PCR amplification 16S ribosomal RNA gene.  
7. Identity confirmed by sequencing of 16S ribosomal RNA gene (first ~ 500 base pairs).

**Biosafety Level: 1**  
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

**ATCC Warranty**  
The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

**Disclaimers**  
This product is intended for laboratory research purposes only. It is not intended for use in humans.  
While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.  
This product is sent with the condition that you are responsible for its safe storage, handling, and use.

## Lampiran 9

### Perhitungan Pengenceran

$$100\% = \frac{b}{5 \text{ ml}}$$

$$= \frac{100\%.b}{5 \text{ ml}}$$

$$b = 5 \text{ gr}$$

$$= 5 \text{ ml}$$

dilarutkan dengan DMSO 10% ad 5 ml

$$75\% = V1.N1 = V2.N2$$

$$v1.100\% = 5 \text{ ml}.75\%$$

$$V1 = \frac{5 \text{ ml}.75\%}{100\%} = \frac{375}{100}$$
$$= 3,75 \text{ ml}$$

dilarutkan dengan DMSO 10% ad 5 ml

$$50\% = V1.N1 = V2.N2$$

$$v1.75\% = 5 \text{ ml}.50\%$$

$$V1 = \frac{5 \text{ ml}.50\%}{75\%} = \frac{250}{75}$$

$$= 3,33 \text{ ml}$$

dilarutkan dengan DMSO 10% ad 5 ml

$$25\% = V1.N1 = V2.N2$$



$$v1.50\% = 5 \text{ ml}.25\%$$

$$V1 = \frac{5 \text{ ml}.25\%}{50\%} = \frac{125}{50}$$

$$= 2,5 \text{ ml}$$

dilarutkan dengan DMSO 10% ad 5 ml

(5 ml dilarutkan dengan DMSO 10% sebanyak 5 ml)

Ket :

V1 = Volume yang dicari

N1 = Konsentrasi yang dicari

V2 = Volume yang diinginkan

N2 = Konsentrasi yang diinginkan

