

|                                                                                                       |                                                                                                     |                                          |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| <br><b>INDOFARMA</b> | <b>Catatan Hasil Kalibrasi Internal</b><br><i>Internal Calibration Note</i><br><b>HPLC Shimadzu</b> | <b>No.</b> : F-PM-01-55                  |
|                                                                                                       |                                                                                                     | <b>Rev.</b> : 00                         |
|                                                                                                       |                                                                                                     | <b>Berlaku/ Date</b> : 03 September 2014 |

|                                                 |   |                                                 |   |         |
|-------------------------------------------------|---|-------------------------------------------------|---|---------|
| <b>No. Fasilitas /</b><br><i>Facility No.</i>   | : | <b>Kapasitas /</b><br><i>Capacity</i>           | : | -       |
| <b>No. Kode Kalibrasi /</b><br><i>Cal. Code</i> | : | <b>Lokasi /</b><br><i>Location</i>              | : |         |
| <b>Merek /</b><br><i>Brand</i>                  | : | <b>Bidang /</b><br><i>Dept.</i>                 | : | LITBANG |
| <b>Tipe /</b><br><i>Type</i>                    | : | <b>No. Protap Cara Kalibrasi/</b><br><i>SOP</i> | : | PKVK047 |
| <b>No. seri /</b><br><i>Serial Number</i>       | : | <b>Nama Petugas /</b><br><i>Name</i>            | : |         |

|                                                       |                                                                       |                                                                           |
|-------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|
| <b>Kalibrator yang digunakan</b><br><i>Calibrator</i> | <b>Tanggal Kalibrasi Kalibrator</b><br><i>Cal. date of Calibrator</i> | <b>Tanggal Rekalibrasi Kalibrator</b><br><i>Recal. date of Calibrator</i> |
| Stopwatch (KP007)                                     |                                                                       |                                                                           |

## 1. Kalibrasi Pompa / Pump Calibration

## A Tes batas tekanan maksimum / Maximum Pressure Limit test

| <b>Tanggal/</b><br><i>Date</i> | <b>Kondisi pompa pada tekanan maksimum/</b><br><i>Pump Condition at P MAX</i> | <b>Syarat/</b><br><i>Requirement</i>       | <b>Kesimpulan/</b><br><i>Conclusion</i> | <b>Paraf Petugas/</b><br><i>Signature</i> | <b>Paraf Asman/</b><br><i>Sign. of Asst. Man</i> |
|--------------------------------|-------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------|
|                                |                                                                               | <b>Pompa berhenti/</b><br><i>Pump Stop</i> |                                         |                                           |                                                  |

## B Tes batas tekanan minimum / Minimum Pressure Limit test

| <b>Tanggal/</b><br><i>Date</i> | <b>Kondisi pompa pada tekanan minimum/</b><br><i>Pump Condition at P MIN</i> | <b>Syarat/</b><br><i>Requirement</i>       | <b>Kesimpulan/</b><br><i>Conclusion</i> | <b>Paraf Petugas/</b><br><i>Signature</i> | <b>Paraf Asman/</b><br><i>Sign. of Asst. Man</i> |
|--------------------------------|------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------|
|                                |                                                                              | <b>Pompa berhenti/</b><br><i>Pump Stop</i> |                                         |                                           |                                                  |

## C Tes ketepatan aliran / Flow rate accuracy

| <b>Tanggal/</b><br><i>Date</i> | <b>Flowrate (ml/min)</b> | <b>Syarat/</b><br><i>Requirement</i> | <b>Kesimpulan/</b><br><i>Conclusion</i> | <b>Paraf Petugas/</b><br><i>Signature</i> | <b>Paraf Asman/</b><br><i>Sign. of Asst. Man</i> |
|--------------------------------|--------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------|
|                                |                          | 1,0 ± 0,02 ml/min                    |                                         |                                           |                                                  |

|                                                                                   |                                                                                                     |                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------|
|  | <b>Catatan Hasil Kalibrasi Internal</b><br><i>Internal Calibration Note</i><br><b>HPLC Shimadzu</b> | No. : F-PM-01-55                  |
|                                                                                   |                                                                                                     | Rev. : 00                         |
|                                                                                   |                                                                                                     | Berlaku/ Date : 03 September 2014 |

## 2. Kalibrasi Detektor / Detector Calibration

### A. Kalibrasi Akurasi Panjang Gelombang (data manual dari detector) / Wavelength Accuracy

| Tanggal/<br>Date | Hasil /<br>Result | Syarat/<br>Requirement                              | Kesimpulan/<br>Conclusion | Paraf Petugas/<br>Signature | Paraf Asman/<br>Sign.of Asst. Man |
|------------------|-------------------|-----------------------------------------------------|---------------------------|-----------------------------|-----------------------------------|
|                  |                   | <b>CHECK GOOD</b><br>(656 ± 1 nm, or<br>486 ± 1 nm) |                           |                             |                                   |

### B. Tes Validasi System Instrument (data dari software) / System Instrument Validation

| Tanggal/<br>Date | Hasil /<br>Result | Syarat/<br>Requirement | Kesimpulan/<br>Conclusion | Paraf Petugas/<br>Signature | Paraf Asman/<br>Sign.of Asst. Man |
|------------------|-------------------|------------------------|---------------------------|-----------------------------|-----------------------------------|
|                  |                   | <b>PASS</b>            |                           |                             |                                   |

## 3. System Performance Test

Tanggal/ Date :

Room Temp.: °C RH: %

| No. Inject                                | Retention time (min.) |                | Area           |                | Resolution |
|-------------------------------------------|-----------------------|----------------|----------------|----------------|------------|
|                                           | Methyl Paraben        | Propyl Paraben | Methyl Paraben | Propyl Paraben |            |
| 1                                         |                       |                |                |                |            |
| 2                                         |                       |                |                |                |            |
| 3                                         |                       |                |                |                |            |
| 4                                         |                       |                |                |                |            |
| 5                                         |                       |                |                |                |            |
| 6                                         |                       |                |                |                |            |
| Rata-rata /<br>Average                    |                       |                |                |                |            |
| %RSD                                      |                       |                |                |                |            |
| Syarat /<br>Requirement                   | < 1.0%                |                | < 1.0%         |                | >1,5       |
| Kesimpulan/<br>Conclusion                 |                       |                |                |                |            |
| Paraf Petugas/<br>Signature               |                       |                |                |                |            |
| Paraf Asman /<br>Sign.of Asst.<br>Manager |                       |                |                |                |            |