

	Catatan Hasil Kalibrasi Internal <i>Internal Calibration Record</i> HPLC Waters Millenium	No. : F-PM-01-57
		Rev. : 00
		Berlaku / Date : 3 September 2014

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

Kalibrator yang digunakan <i>Calibrator</i>	Tanggal Kalibrasi Kalibrator <i>Cal. date of Calibrator</i>	Tanggal Rekalibrasi Kalibrator <i>Recal. date of Calibrator</i>

1. Pump : WATERS
Serial Number :

A. Tes Penunjuk Tekanan Pompa pada 1000 PSI / Pressure indicator test at 1000 PSI

Tanggal / <i>Date</i>	Tekanan setelah 1 menit / <i>Pressure after 1 min</i>	Syarat / <i>Requirement</i>	Kesimpulan / <i>Conclusion</i>	Paraf Petugas / <i>Signature</i>	Paraf Asman / <i>Sign. of Asst. Man.</i>
	PSI	1000 ± 100 PSI			

B. Tes Kebocoran Pompa pada 5000 PSI / Leakage test at 5000 PSI

Tanggal / <i>Date</i>	Tekanan setelah 1 menit / <i>Pressure after 1 min</i>	Syarat / <i>Requirement</i>	Kesimpulan / <i>Conclusion</i>	Paraf Petugas / <i>Signature</i>	Paraf Asman / <i>Sign. of Asst. Man.</i>
	PSI	≥ 4500 PSI			

C. Tes Kebocoran Injector pada 5000 PSI / Injector Leakage test at 5000 PSI

Tanggal / <i>Date</i>	Posisi / <i>Injector Position</i>	Tekanan setelah 1 menit / <i>Pressure after 1 min</i>	Syarat / <i>Requirement</i>	Kesimpulan / <i>Conclusion</i>	Paraf Petugas / <i>Signature</i>	Paraf Asman / <i>Sign. of Asst. Man.</i>
	LOAD	PSI	≥ 4500 PSI			
	INJECT	PSI	≥ 4500 PSI			

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D. Tes Akurasi *Flow rate* Pompa / *Flow rate test*

Tanggal / Date	Flow rate	Hasil pengukuran / Data	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas / Signature
	5 ml/ min	Min. sec.	5 min. $\pm$ 9 sec.		
	1 ml/ min	Min. sec.	10 min. $\pm$ 18 sec.		
	0.5 ml/ min	Min. sec.	20 min. $\pm$ 36 sec.		
Flow rate Accuracy	Hasil perhitungan / Result	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. of Asst. Man
	%	$\leq 3\%$			

E. Tes Akurasi *Flow rate* Pompa Data II / *Flow rate test (Second Data)*

Tanggal / Date	Flow rate	Hasil pengukuran / Data	Syarat / Requirement	Kesimpulan/ Conclusion	Paraf Petugas/ Signature
	5 ml/ min	Min. sec.	5 min. $\pm$ 9 sec.		
	1 ml/ min	Min. sec.	10 min. $\pm$ 18 sec.		
	0.5 ml/ min	Min. sec.	20 min. $\pm$ 36 sec.		
Flow rate Accuracy	Hasil perhitungan / Result	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. of Asst. Man
	%	$\leq 3\%$			

 INDOFARMA	Catatan Hasil Kalibrasi Internal <i>Internal Calibration Record</i> HPLC Waters Millenium	No. : F-PM-01-57
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2. DETECTOR : WATERS 486

Serial Number :

A. Tes Akurasi Panjang Gelombang / Wavelength Accuracy

Tanggal / Date :

Suhu / Room Temp.:

RH :

Panjang gelombang / Wavelength (nm)	Pembacaan Absorbans / Abs. reading (AU)	Panjang gelombang maks. / Max. wavelength (nm)	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas / Signature	Paraf Asman / Sign. of Asst. Man.
250			256 – 260 nm			
251						
252						
253						
254						
255						
256						
257						
258						
259						
260						
261						
262						
263						
264						
265						

B. Test PDA Calibration / PDA Calibration

Tanggal / Date :

Suhu / Room Temp.:

RH :

No.	Panjang Gelombang / Wavelength	Hasil / Result	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas / Signature	Paraf Asman / Sign. Of Asst. Man
1						
2						

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C. Test PDA Diagnostic/ PDA Diagnostic

Tanggal / Date :

Suhu / Room Temp.:

RH :

No.	Parameter / Parameters	Hasil / Result	Syarat / Requirement	Kesimpulan/ Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. Of Asst. Man
1	CPU		OK			
2	Timer		OK			
3	Shutter		OK			
4	Lamp		OK			
5	Wavelength Accuracy		OK			
6	Communications		OK			
7	Optics		OK			
8	ROM		OK			
9	DSP		OK			
10	RAM		OK			

3. Overall System Performance

Tanggal / Date :

Suhu / Room Temp.:

RH :

No. Inject	Retention time (min.)		Area		Resolution
	Methyl Paraben	Propyl Paraben	Methyl Paraben	Propyl Paraben	
1					
2					
3					
4					
5					
6					
Rata-rata / Average					
%RSD					
Syarat / Requirement	RSD $\leq$ 1.0%		RSD $\leq$ 1.0%		R > 1.5
Kesimpulan/ Conclusion					
Paraf Petugas/ Signature					
Paraf Asman / Sign. of Asst. Manager					