

	Catatan Hasil Kalibrasi Internal <i>Internal Calibration Record</i> HPLC Waters	No. : F-PM-01-17
		Rev. : 00
		Berlaku / Date : 3 September 2014

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

Kalibrator yang digunakan Calibrator	Tanggal Kalibrasi Kalibrator Cal. date of Calibrator	Tanggal Rekalibrasi Kalibrator Recal. date of Calibrator
1. Stopwatch 2. Uracyl 3. Methyl Paraben 4. Propyl Paraben		

1. Pump : WATERS

Serial Number :

A. Tes Penunjuk Tekanan Pompa pada 1000 PSI

Suhu / Room Temp.:

RH :

Pressure indicator test at 1000 PSI

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

B. Tes Kebocoran Pompa pada 5000 PSI

Leakage test at 5000 PSI

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

C. Tes Kebocoran Injector pada 5000 PSI

Injector Leakage test at 5000 PSI

Tanggal / Date	Posisi / Injector Position	Tekanan setelah 30 detik / Pressure after 30 seconds	Syarat / Requirement	Kesimpulan/ Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. of Asst. Man.
	LOAD	PSI	≥ 4500 PSI			
	INJECT	PSI	≥ 4500 PSI			

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

Suhu / Room Temp.:

RH :

Tanggal / Date	Flow rate	Hasil pengukuran / Data	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas / Signature
	2 ml/ min	Min. sec.	5 min. ± 9 sec.		
	1 ml/ min	Min. sec.	10 min. ± 18 sec.		
Flow rate Accuracy	Hasil perhitungan / Result	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. of Asst. Man
	%	≤ 3%			

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

Suhu / Room Temp.:

RH :

Tanggal / Date	Flow rate	Hasil pengukuran / Data	Syarat / Requirement	Kesimpulan/ Conclusion	Paraf Petugas/ Signature
	2 ml/ min	Min. sec.	5 min. ± 9 sec.		
	1 ml/ min	Min. sec.	10 min. ± 18 sec.		
Flow rate Accuracy	Hasil perhitungan / Result	Syarat / Requirement	Kesimpulan / Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. of Asst. Man
	%	≤ 3%			

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2. **DETECTOR : WATERS 486**

Serial Number :

A. Tes Akurasy 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 Linearity Absorbance Detector 486

Linearity Absorbance Test

Tanggal / Date :

Suhu / Room Temp.:

RH :

Larutan / Solution	Pembacaan Absorbans / Abs. reading (AU) at nm	Hasil Perhitungan/ Result	Syarat / Requirement	Kesimpulan/ Conclusion	Paraf Petugas/ Signature	Paraf Asman/ Sign. Of Asst. Man
No. 1 0 mg/l (100% MeOH)	_____		> 1.50 AU			
No. 2 5 mg/l	_____					
No. 3 10 mg/l	_____					
No. 4 15 mg/l	_____					
No. 5 20 mg/l	_____					
No. 6 25 mg/l	_____					

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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 < 1.0%		RSD < 1.0%		R > 1.5
Kesimpulan / Conclusion					
Paraf Petugas / Signature					
Paraf Asman / Sign. of Asst. Manager					