

**LIST OF CHEMICAL INSTRUMENTATION FACILITIES
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS ISLAM INDONESIA**

No	Laboratory Name	Instrument Name	Unit	Ownership		Maintained Condition	
				Own	Rent	Yes	No
1	Microbiology Laboratory	PCR, Konvensional, Thermo scientific	1	✓	-	✓	-
2	Pharmaceutical Biology Laboratory	HPLC Preparatif, Waters	1	✓	-	✓	-
3	Pharmaceutical Research Laboratory	UHPLC, Thermo Scientific Ultimate 3000	1	✓	-	✓	-
4	Pharmaceutical Research Laboratory	Microtome	1	✓	-	✓	-
5	Pharmaceutical Research Laboratory	PCR, Real Time	1	✓	-	✓	-
6	Drug, Food and Cosmetic Testing Laboratory	HPLC Water e2695 (Detektor UV/Vis & Fluoresence)	1	✓	-	✓	-
7	Drug, Food and Cosmetic Testing Laboratory	HPLC Water e2695 (Detektor UV/Vis)	1	✓	-	✓	-
8	Integrated Instrumentation Laboratory	AAS Perkin Elmer 5100 PC	1	✓	-	✓	-
9	Integrated Instrumentation Laboratory	HPLC Shimadzu LC 6	1	✓	-	✓	-
10	Integrated Instrumentation Laboratory	GC Hitachi 3000	1	✓	-	✓	-
11	Integrated Instrumentation Laboratory	FTIR Thermo Nicolet Avatar 360	1	✓	-	✓	-
12	Integrated Instrumentation Laboratory	Gas Chromatography-Massa Specra (GC-MS) QP 2010	1	✓	-	✓	-
13	Integrated Instrumentation Laboratory	Spektrofotometer UV-Vis Hitachi	1	✓	-	✓	-
14	Integrated Instrumentation Laboratory	Gas Sorption Analyzer (Nova 1200 e Quantachrome)	1	✓	-	✓	-
15	Integrated Instrumentation Laboratory	SEM-EDX	1	✓	-	✓	-
16	Integrated Instrumentation Laboratory	SAA (Surface Area Analyzer)	1	✓	-	✓	-
17	Integrated Instrumentation Laboratory	NMR (Nanalysis Ready 60 Pro)	1	✓	-	✓	-
18	Integrated Instrumentation Laboratory	X-ray diffraction (Bruker D2 Phaset 2 nd Gen)	1	✓	-	✓	-
19	Chemical Instrumentation Laboratory	AAS 210 Bucksscientific	1	✓	-	✓	-
20	Chemical Instrumentation Laboratory	GC Bucksscientific	1	✓	-	✓	-
21	Chemical Instrumentation Laboratory	FTIR Perkin Elmer	1	✓	-	✓	-
22	Chemical Instrumentation Laboratory	Spectrophotometer UV-Vis Hitachi U-2010	1	✓	-	✓	-
23	Chemical Instrumentation Laboratory	Cyclic voltametry Metrohm	1	✓	-	✓	-
24	Chemical Instrumentation Laboratory	Spectrophotometer UV-Vis Hitachi	1	✓	-	✓	-
25	Pharmaceutical Technology Laboratory	Mesin Blister (DPB - 140 RRC)	1	✓	-	✓	-
26	Pharmaceutical Technology Laboratory	Mesin Tablet Single Punck (TDP / Korsh E KO)	2	✓	-	✓	-
27	Pharmaceutical Technology Laboratory	Spekto Foto Meter (Hitaci U-2810)	1	✓	-	✓	-
28	Pharmaceutical Chemistry Laboratory	Spektrofotometer UV-Vis singlebeem Shimadzu UV mini 1240	2	✓	-	✓	-
29	Pharmaceutical Chemistry Laboratory	Spektrofotometer Uv-Vis Doublebeem Shimadzu UV-1800	1	✓	-	✓	-
30	Pharmaceutical Chemistry Laboratory	Spektrofotometer Shimadzu Doublebeem UV 1800 + Heater	1	✓	-	✓	-
31	Microbiology Laboratory	Elisa Reader, 96 well, Thermo scientific	1	✓	-	✓	-
32	Microbiology Laboratory	Elektroforesis, Mupid	1	✓	-	✓	-
33	Microbiology Laboratory	Elektroforesis, Nyx Technick	2	✓	-	✓	-
34	Microbiology Laboratory	Elektroforesis, BioRad	1	✓	-	✓	-
35	Pharmaceutical Biology Laboratory	Spray Dryer, Buchi	1	✓	-	✓	-
36	Pharmaceutical Biology Laboratory	TLC Scanner, Cammag	1	✓	-	✓	-
37	Pharmaceutical Biology Laboratory	Freeze dryer, Crisht	1	✓	-	✓	-
38	Drug, Food and Cosmetic Testing Laboratory	Spindown Biosan MSC-6000	1	✓	-	✓	-
39	Drug, Food and Cosmetic Testing Laboratory	Water system Thermo LabTower EDI 15	1	✓	-	-	✓
40	Pharmacology Laboratory	Spektrofotometer Visible	1	✓	-	✓	-
41	Research Chemistry Laboratory	Buck 205 Atomic Absorption Spectrophotometer	1	✓	-	✓	-
42	Research Chemistry Laboratory	Spektrofotometer UV-Vis Hitachi U2010	1	✓	-	✓	-
43	Chemistry Research Excellence Laboratory	Furnace Memmert	1	✓	-	✓	-
44	Chemistry Research Excellence Laboratory	Oven Memmert	1	✓	-	✓	-
45	Chemistry Research Excellence Laboratory	Sonicator	1	✓	-	✓	-
46	Chemistry Research Excellence Laboratory	Sonicator	1	✓	-	✓	-
47	Chemistry Research Excellence Laboratory	Photocatalyst Reactor	1	✓	-	✓	-
48	Chemistry Research Excellence Laboratory	Hydrocracking Reaktor	1	✓	-	✓	-
49	Chemistry Research Excellence Laboratory	Pyrolysis Reactor	1	✓	-	✓	-
50	Chemistry Research Excellence Laboratory	pH meter	1	✓	-	✓	-
51	Chemistry Research Excellence Laboratory	Autoclave	1	✓	-	✓	-
52	Chemistry Research Excellence Laboratory	Reactor microwave	1	✓	-	✓	-
53	Computational Chemistry Laboratory	Software Abinitio	5	✓	-	✓	-
54	Computational Chemistry Laboratory	Software Gromacs	5	✓	-	✓	-
55	Computational Chemistry Laboratory	Software NWChem	5	✓	-	✓	-
56	Computational Chemistry Laboratory	Software Chemskeith	5	✓	-	✓	-
57	Computational Chemistry Laboratory	Software Chem Office	5	✓	-	✓	-
58	Statistics Data Mining Laboratory	Laptop Lenovo Yoga Duet	15	✓	-	✓	-
59	Statistics Data Mining Laboratory	Laptop Macbook Pro 13	4	✓	-	✓	-
60	Statistics Data Mining Laboratory	Camtasia 2020	4	✓	-	✓	-
61	Statistics Data Mining Laboratory	Adobe Creative Cloud	2	✓	-	✓	-
62	Statistics Data Mining Laboratory	Minitab 2019	4	✓	-	✓	-

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				Own	Rent	Yes	No
63	Statistics Data Mining Laboratory	MATLAB 2020	1	√	-	√	-
64	Statistics Data Mining Laboratory	Gramerly	1	√	-	√	-
65	Statistics Data Mining Laboratory	SPSS 27	6	√	-	√	-
66	Social Statistics Industry Business Laboratory	Laptop Mac (Proesor: Intel Core i5 dual-core 1,6 GHz, Turbo Boost hingga 3,6 GHz, dengan cache L3 sebesar 4 MB HD: SSD berbasis PCIe 128 GB Memory: LPDDR3 2133 MHz sebesar 16 GB)	10	√	-	√	-
67	Disaster Management Statistics Laboratory	Laptop Lenovo	22	√	-	√	-
68	Pharmaceutical Technology Laboratory	Mikroskop & Kamernya (CX 21 & Optilab)	1	√	-	√	-
69	Pharmaceutical Technology Laboratory	Air Lock (ESCO (EAS-1A1))	1	√	-	√	-
70	Pharmaceutical Technology Laboratory	Autoclave (All American	2	√	-	√	-
71	Pharmaceutical Technology Laboratory	Cicin Dunoi (Kruss)	1	√	-	√	-
72	Pharmaceutical Technology Laboratory	Coating pan (Lokal , 500 gram)	1	√	-	√	-
73	Pharmaceutical Technology Laboratory	Desintegration Tester (ERWEKA ZT 502)	1	√	-	√	-
74	Pharmaceutical Technology Laboratory	Disolusion Tester (ERWEKA DT 700)	1	√	-	√	-
75	Pharmaceutical Technology Laboratory	Flowbility Tester (Coplay BEP 2)	1	√	-	√	-
76	Pharmaceutical Technology Laboratory	Freeabilator (ERWEKA T-100/T-200)	1	√	-	√	-
77	Pharmaceutical Technology Laboratory	Hardnesstester (ERWEKA TBH 125)	1	√	-	√	-
78	Pharmaceutical Technology Laboratory	Hardnesstester (Vanguard YD -2)	1	√	-	√	-
79	Pharmaceutical Technology Laboratory	Homogeneser Ultraturak (IKA T18 & IKA T 25)	2	√	-	√	-
80	Pharmaceutical Technology Laboratory	Klimatik Camber (Climacell (111)	1	√	-	√	-
81	Pharmaceutical Technology Laboratory	Kook Mixer (Lokal ,200 gram)	1	√	-	√	-
82	Pharmaceutical Technology Laboratory	LAF (ESCO Vertikal LAF)	1	√	-	√	-
83	Pharmaceutical Technology Laboratory	Melting Point (Stuart Scientific SMP 10)	1	√	-	√	-
84	Pharmaceutical Technology Laboratory	Mixer granulator (Lokal , 3 Kg)	1	√	-	√	-
85	Pharmaceutical Technology Laboratory	Moisttute balans (METTLER HB 43)	1	√	-	√	-
86	Pharmaceutical Technology Laboratory	Osmometer (Knaljer K-7400S)	1	√	-	√	-
87	Pharmaceutical Technology Laboratory	Ph Meter (Horiba D - 71 & 0040 - 10 D)	1	√	-	√	-
88	Pharmaceutical Technology Laboratory	Ph Meter (WTW Inolab)	1	√	-	√	-
89	Pharmaceutical Technology Laboratory	Refraktometer (Hanna HI 96800)	1	√	-	√	-
90	Pharmaceutical Technology Laboratory	Sieve Shaker (Retssch AS200 basic)	1	√	-	√	-
91	Pharmaceutical Technology Laboratory	Siring Pump (Shenchen SPLab02)	1	√	-	√	-
92	Pharmaceutical Technology Laboratory	Taping (Lokal)	1	√	-	√	-
93	Pharmaceutical Technology Laboratory	Taping (Erweka SVM 121)	1	√	-	√	-
94	Pharmaceutical Technology Laboratory	Ultrasonik Homogenizer (Biologics 300 VT)	1	√	-	√	-
95	Pharmaceutical Technology Laboratory	Viskometer Brookfield (Brookfield KU-2)	1	√	-	√	-
96	Pharmaceutical Technology Laboratory	Viskometer Brookfield (DV - 1 Prime Middleboro USA)	1	√	-	√	-
97	Pharmaceutical Technology Laboratory	Viskometer Brookfield Con AndPlate (DV-2T)	1	√	-	√	-
98	Pharmaceutical Technology Laboratory	Viskometer Elektrik (Rion Ltd Japan)	1	√	-	√	-
99	Pharmaceutical Chemistry Laboratory	Refraktometer Abbe	1	√	-	√	-
100	Pharmaceutical Chemistry Laboratory	pH meter Metler Toledo	1	√	-	√	-
101	Microbiology Laboratory	Oven, Memmert	1	√	-	√	-
102	Microbiology Laboratory	Shaker, Mandiri Technics MFG	1	√	-	√	-
103	Microbiology Laboratory	Analytical balance, Mettler Toledo	1	√	-	√	-
104	Microbiology Laboratory	Analytical balance, ML303E	1	√	-	√	-
105	Microbiology Laboratory	Analytical balance, PL202-3	1	√	-	√	-
106	Microbiology Laboratory	LAF, Esco	1	√	-	√	-
107	Microbiology Laboratory	LAF, Labtech	1	√	-	√	-
108	Microbiology Laboratory	LAF, Labtech	1	√	-	√	-
109	Microbiology Laboratory	LAF, Thermo scientific	1	√	-	√	-
110	Microbiology Laboratory	Microwave, sharp	1	√	-	√	-
111	Microbiology Laboratory	Microwave, panasonic	1	√	-	√	-
112	Microbiology Laboratory	Waterbath, Memmert	1	√	-	√	-
113	Microbiology Laboratory	Sentrifuge, Hettich	1	√	-	√	-
114	Microbiology Laboratory	Mikroskop, Olympus	3	√	-	√	-
115	Microbiology Laboratory	Coloni counter manual	1	√	-	√	-
116	Microbiology Laboratory	Anaerobig jar, oxoid	5	√	-	√	-
117	Microbiology Laboratory	Spindown, Bio San MSC-6000	2	√	-	√	-
118	Practical Pharmacy Laboratory	Electronic Digital Scale	5	√	-	√	-
119	Microbiology Laboratory	Vortex, Biologix MX-S	1	√	-	√	-
120	Practical Pharmacy Laboratory	Sealing machine SCI	1	√	-	√	-
121	Practical Pharmacy Laboratory	Tablet crusher SCI	1	√	-	√	-
122	Pharmaceutical Biology Laboratory	Mikroskop Elektrik	6	√	-	√	-
123	Pharmaceutical Biology Laboratory	Linomat Camag, Cammag	1	√	-	√	-
124	Pharmaceutical Biology Laboratory	Rotary Evaporator, Heidolph	3	√	-	√	-
125	Pharmaceutical Research Laboratory	Microscope Fluoresence	1	√	-	√	-
126	Pharmaceutical Research Laboratory	Microscope Stereo	1	√	-	√	-

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				Own	Rent	Yes	No
127	Pharmaceutical Research Laboratory	BSC Level 2,	1	✓	-	✓	-
128	Pharmaceutical Research Laboratory	Refrigerated Sentrifuse	1	✓	-	✓	-
129	Pharmaceutical Research Laboratory	Osmometer, KNAUER K-7400 Semi-Micro Osmometer	1	✓	-	✓	-
130	Pharmaceutical Research Laboratory	Deep Freezer Chamber	1	✓	-	✓	-
131	Drug, Food and Cosmetic Testing Laboratory	pH meter Mettler Toledo SevenEasy	1	✓	-	✓	-
132	Drug, Food and Cosmetic Testing Laboratory	Ultrasonikator Branson 5510	1	✓	-	✓	-
133	Drug, Food and Cosmetic Testing Laboratory	Sentifuge Hanil MF80	1	✓	-	✓	-
134	Pharmacology Laboratory	Pletysmometer	1	✓	-	✓	-
135	Pharmacology Laboratory	Rotarod	1	✓	-	✓	-
136	Pharmacology Laboratory	Mikroskop Olympus Digital	1	✓	-	✓	-
137	Pharmacology Laboratory	Mikroskop Zeiss Digital	1	✓	-	✓	-
138	Pharmacology Laboratory	Breading Cage	1	✓	-	✓	-
139	Pharmacology Laboratory	Metabolic Cage	6	✓	-	✓	-
140	Pharmacology Laboratory	Breading Zebra Fish	10	✓	-	✓	-
141	Pharmacology Laboratory	Analytical balance digital Mettler Toledo	3	✓	-	✓	-
142	Educational Chemistry Laboratory	Automatic Titrator	1	✓	-	✓	-
143	Educational Chemistry Laboratory	Electro Analyzer local	1	✓	-	✓	-
144	Educational Chemistry Laboratory	Electro Analyzer metrohm	1	✓	-	✓	-
145	Educational Chemistry Laboratory	Evaporator Buchi R-200	1	✓	-	✓	-
146	Educational Chemistry Laboratory	Evaporator Heidolph Mr 3001	1	✓	-	✓	-
147	Applied Chemistry Laboratory (Electroplating)	electroplating nikel	1	✓	-	✓	-
148	Applied Chemistry Laboratory (Electroplating)	electroplating crom	1	✓	-	✓	-
149	Research Chemistry Laboratory	Spectronik 20 Gynesis	1	✓	-	✓	-
150	Chemistry Research Excellence Laboratory	Microwave Reactor	1	✓	-	✓	-
151	Integrated Instrumentation Laboratory	water sampling tools	1	✓	-	✓	-
152	Essential Oil Research and Testing Laboratory	Essential Oil Distillation Tool Set kap. 1kg	1	✓	-	✓	-
153	Essential Oil Research and Testing Laboratory	Essential Oil Distillation Tool Set kap. 5kg	1	✓	-	✓	-
154	Essential Oil Research and Testing Laboratory	Essential Oil Distillation Tool Set kap. 50kg	1	✓	-	✓	-
155	Essential Oil Research and Testing Laboratory	Essential Oil Distillation Tool Set kap. 100 kg	1	✓	-	✓	-
156	Computational Chemistry Laboratory	computer	5	✓	-	✓	-
157	Social Statistics Industry Business Laboratory	Proyektor Hitachi 3	3	✓	-	✓	-
158	Disaster Management Statistics Laboratory	Proyektor Short Throw	1	✓	-	✓	-
159	Disaster Management Statistics Laboratory	Proyektor Interactive Light Rise	1	✓	-	✓	-
160	Pharmaceutical Chemistry Laboratory	Analytical balance 4 digit Metler Toledo	2	✓	-	✓	-
161	Pharmaceutical Chemistry Laboratory	Analytical balance 4 digit Ohaus	2	✓	-	✓	-
162	Pharmaceutical Chemistry Laboratory	Furnace Thermolyne F 48010-33	1	✓	-	✓	-
163	Pharmaceutical Chemistry Laboratory	Oven Memmert	1	✓	-	✓	-
164	Pharmaceutical Chemistry Laboratory	Vortex IKA MS 3 Digital	1	✓	-	✓	-
165	Pharmaceutical Chemistry Laboratory	Centrifuge PLC Series	1	✓	-	✓	-
166	Pharmaceutical Chemistry Laboratory	Centrifuge Hettic EBA 20	1	✓	-	✓	-
167	Pharmaceutical Chemistry Laboratory	Waterbath Memmert WNB 14	1	✓	-	✓	-
168	Pharmaceutical Chemistry Laboratory	Pompa Vacuum	3	✓	-	✓	-
169	Pharmaceutical Chemistry Laboratory	magnetik stirer hotplate Companion HP-3000	1	✓	-	✓	-
170	Pharmaceutical Chemistry Laboratory	magnetik stirred +hotplate digital heidolph	1	✓	-	✓	-
171	Microbiology Laboratory	Inkubator, Esco	1	✓	-	✓	-
172	Microbiology Laboratory	Inkubator, Memmert	3	✓	-	✓	-
173	Microbiology Laboratory	Autoclave, All american	2	✓	-	✓	-
174	Microbiology Laboratory	Autoclave, MA 631	1	✓	-	✓	-
175	Microbiology Laboratory	Autoclave, Hirayama HVE-50	2	✓	-	✓	-
176	Microbiology Laboratory	Scan 500, Interscience	1	✓	-	✓	-
177	Microbiology Laboratory	Bag mixer, Interscience	1	✓	-	✓	-
178	Microbiology Laboratory	UV box	1	✓	-	✓	-
179	Microbiology Laboratory	Vortex, Thermo scientific	1	✓	-	✓	-
180	Microbiology Laboratory	Stirer, Thermo scientific	1	✓	-	✓	-
181	Practical Pharmacy Laboratory	Analytical balance gram balance	10	✓	-	✓	-
182	Practical Pharmacy Laboratory	Analytical balance milligram balance	6	✓	-	✓	-
183	Practical Pharmacy Laboratory	Analytical balance digital Mettler Toledo -1229040353	1	✓	-	✓	-
184	Practical Pharmacy Laboratory	Waterbath Memert WNB14	1	✓	-	✓	-
185	Practical Pharmacy Laboratory	Waterbath Memert WNB10	1	✓	-	✓	-
186	Drug, Food and Cosmetic Testing Laboratory	Karl Fisher Metler Toledo V30	1	✓	-	✓	-
187	Drug, Food and Cosmetic Testing Laboratory	Analytical balance 4 digit Metler Toledo AL204	1	✓	-	✓	-
188	Drug, Food and Cosmetic Testing Laboratory	Analytical balance 5 digit Metler Toledo XS205	1	✓	-	✓	-
189	Mini Teaching Hospital	Tempat tidur/bed	5	✓	-	✓	-
190	Mini Teaching Hospital	Tiang infus beroda	1	✓	-	✓	-
191	Mini Teaching Hospital	Tensimeter digital	4	✓	-	✓	-
192	Mini Teaching Hospital	Tensimeter manual	8	✓	-	✓	-
193	Mini Teaching Hospital	Syringe pump	1	✓	-	✓	-

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				Own	Rent	Yes	No
194	Mini Teaching Hospital	Medicine packing system	1	✓	-	✓	-
195	Mini Teaching Hospital	Computer All in one	8	✓	-	✓	-
196	Mini Teaching Hospital	GCU multifunction monitoring system	8	✓	-	✓	-
197	Mini Teaching Hospital	Stetoskop	8	✓	-	✓	-
198	Mini Teaching Hospital	Analytical balance gram	1	✓	-	✓	-
199	Mini Teaching Hospital	Analytical balance miligram	1	✓	-	✓	-
200	Pharmacology Laboratory	Sentrifuse	1	✓	-	✓	-
201	Pharmacology Laboratory	Hot Plate	1	✓	-	✓	-
202	Educational Chemistry Laboratory	Atomizer Set KLT	1	✓	-	✓	-
203	Educational Chemistry Laboratory	Kalorimeter	1	✓	-	✓	-
204	Educational Chemistry Laboratory	Termostat	1	✓	-	✓	-
205	Educational Chemistry Laboratory	Viskometer Oswald	1	✓	-	✓	-
206	Educational Chemistry Laboratory	Afhauser	1	✓	-	✓	-
207	Educational Chemistry Laboratory	Spectronic 20 Gynesis	1	✓	-	✓	-
208	Educational Chemistry Laboratory	Oven Mammert	1	✓	-	✓	-
209	Educational Chemistry Laboratory	Sentrifuger Janetzki T5	1	✓	-	✓	-
210	Educational Chemistry Laboratory	Digital Balance Voyager OHAUS	1	✓	-	✓	-
211	Educational Chemistry Laboratory	Digital Balance Sartorius	1	✓	-	✓	-
212	Educational Chemistry Laboratory	Digital Balance AND GF-200	1	✓	-	✓	-
213	Educational Chemistry Laboratory	pH Meter Digital Inolab	1	✓	-	✓	-
214	Educational Chemistry Laboratory	pH Meter Digital Hanna Instrument	1	✓	-	✓	-
215	Educational Chemistry Laboratory	Magnetic Stirrer Hanna Instrument	1	✓	-	✓	-
216	Educational Chemistry Laboratory	Hot Plate Stirrer Cimtec	1	✓	-	✓	-
217	Educational Chemistry Laboratory	Hot Plate Stirrer Labinco L 81	1	✓	-	✓	-
218	Educational Chemistry Laboratory	Hot Plate Stirrer Heidolph Mr 3001	1	✓	-	✓	-
219	Educational Chemistry Laboratory	conductometer	1	✓	-	✓	-
220	Research Chemistry Laboratory	Heating Mantle Isopad	1	✓	-	✓	-
221	Research Chemistry Laboratory	Vacuum Pump Type. 2xz-0.5 P.R China	1	✓	-	✓	-
222	Research Chemistry Laboratory	Afhauser Quick Fit	1	✓	-	✓	-
223	Research Chemistry Laboratory	Portable Conductivity Meter Hanna Instrument	1	✓	-	✓	-
224	Research Chemistry Laboratory	UV Reaktor	1	✓	-	✓	-
225	Research Chemistry Laboratory	Polarimeter	1	✓	-	✓	-
226	Research Chemistry Laboratory	Refraktometer	1	✓	-	✓	-
227	Research Chemistry Laboratory	Water Destilator Merit	1	✓	-	✓	-
228	Research Chemistry Laboratory	Densitometer	1	✓	-	✓	-
229	Research Chemistry Laboratory	Desikator	1	✓	-	✓	-
230	Research Chemistry Laboratory	Electro Analyzer Metrohm	1	✓	-	✓	-
231	Research Chemistry Laboratory	Evaporator Buchi	1	✓	-	✓	-
232	Research Chemistry Laboratory	gas sampling tools	1	✓	-	✓	-
233	Research Chemistry Laboratory	catalyst reactor	1	✓	-	✓	-
234	Research Chemistry Laboratory	Karl Fischer	1	✓	-	✓	-
235	Essential Oil Research and Testing Laboratory	Leaf Dryer Set	1	✓	-	✓	-
236	Essential Oil Research and Testing Laboratory	Analytical balance	1	✓	-	✓	-
237	Essential Oil Research and Testing Laboratory	Water sampling tools	1	✓	-	✓	-
238	Essential Oil Research and Testing Laboratory	Polarimeter (Semiautomatic WXG-5)	1	✓	-	✓	-
239	Integrated Physics Laboratory	Ampermeter	1	✓	-	✓	-
240	Integrated Physics Laboratory	Voltmeter	1	✓	-	✓	-
241	Integrated Physics Laboratory	Viscosimeter	1	✓	-	✓	-
242	Integrated Physics Laboratory	Multimeter	1	✓	-	✓	-
243	Integrated Physics Laboratory	Calipers	1	✓	-	✓	-
244	Integrated Physics Laboratory	Oscilloscope	1	✓	-	✓	-
245	Integrated Physics Laboratory	Jembatan Wetson	1	✓	-	✓	-
246	Integrated Physics Laboratory	Simple Pendulum	1	✓	-	✓	-
247	Pharmaceutical Biology Laboratory	Fumehood, Esco	1	✓	-	✓	-
248	Pharmaceutical Research Laboratory	Fumehood	1	✓	-	✓	-
249	Pharmaceutical Research Laboratory	Corrocive Cabinet	1	✓	-	✓	-
250	Pharmaceutical Research Laboratory	Flammable Cabinet	1	✓	-	✓	-
251	Educational Chemistry Laboratory	Corong Buchner	1	✓	-	✓	-