

Equipment	Lokasi	Fungsi	Unit	Price/Unit	SubTotal	Brand	Rationale/Remark
Air sampler	Portable	Kualifikasi Clean room	2	IDR 185,000,000	IDR 420,669,000	Merck Millipore MAS-100 Sirius	Comply with CFR 21 part 11, sudah include harga 1 spare head
BSC	Endotoxin room 211 Positive control room 207 Microbial limit room 208	Uji mikro	3	IDR 177,940,000	IDR 533,820,000	Esco Streamline S Series	Trusted brand dengan harga terendah
Conductivitymeter	Physiochemistry 227	Kualifikasi water system	1	IDR 53,692,400	IDR 53,692,400	Mettler Toledo SevenDirect SD30 Kit	Memiliki low range conductivity probe sehingga lebih sesuai untuk kualifikasi pharma water. Trusted brand dengan harga terendah
Electronic balance	Micro Preparation 226	Pembuatan media mikro	1	IDR 71,949,500	IDR 71,949,500	Sartorius BCA32021-1S	Trusted brand dengan harga terendah dan lead time tercepat (ready stock)
Hotplate stirrer	Micro preparation	Pembuatan media mikro	1	IDR 10,062,500	IDR 10,062,500	Ika HS7	Trusted brand dengan harga terendah
Incubator 20-25 (with cooler)	Incubator room 217	Inkubasi jamur	1	IDR 209,239,820	IDR 209,239,820	Binder KB ECO 400	Trusted brand dengan harga terendah
Incubator 30-35	Incubator room 217	Inkubasi bakteri	2	IDR 93,814,320	IDR 187,629,640	Binder BD 260	Trusted brand dengan harga terendah
Incubator 45	Incubator Room 215 Incubator room 217	Inkubasi media kosong Inkubasi BI	1	IDR 46,779,820	IDR 46,779,820	Binder BD 56	Trusted brand dengan harga terendah
Freezer - Refrigerator	Positive control room 207 Endotoxin room 211	Penyimpanan reagent dan WS ATCC	3	IDR 80,200,000	IDR 240,600,000	MD MCD-25L350	Harga terendah, range suhu paling ideal
Mikroskop	Physiochemistry 227	Penyimpanan reagent RS Penyimpanan reagent	1	IDR 46,004,000	IDR 46,004,000	Motic M200T	Harga terendah, spek sesuai
pH meter	Prep and inspection 226	Gram staining (identifikasi bakteri)	2	IDR 51,111,800	IDR 102,223,600	Mettler Toledo	Trusted brand dengan harga terendah
TOC instrument	Physiochemistry 227	Kualifikasi water system Pembuatan media mikro	1	IDR 1,433,313,750	IDR 1,433,313,750	Veolia TOC M9	This brand/type is common used in Pharma. The availability of autosampler can convenience routine operational since usually there are multiple TOC sample from water system and this testing should be carried out almost immediately so the analyst do not need to standby during analysis
Water bath	Endotoxin room 211	BET untuk kualifikasi water system	1	IDR 29,400,000	IDR 29,400,000	Memmert WTB15	Tutup non flat bisa menampung botol tinggi
Vortex mixer	Endotoxin room 211	BET untuk kualifikasi water system	1	IDR 7,560,000	IDR 7,560,000	Heidolph	Trusted brand dengan harga terendah
Media dispenser	Microbial limit room 208	Pembuatan media mikro	1	IDR 95,168,550	IDR 95,168,550	Interscience	Optional to help media preparation
Colony counter	Micro Preparation 226	Bioburden	1	IDR 227,500,000	IDR 227,500,000	Interscience	Comply data integrity, Report available
Mannifold/pump	Microbial limit room 208	Bioburden	1	IDR 100,605,000	IDR 100,605,000	Microsart (Sartorius)	Trusted brand dengan harga terendah
Mikropipet 100-1000 ul	Microbial limit room 208	BET untuk kualifikasi water system	2	IDR 9,192,700	IDR 18,385,400	Eppendorf	Trusted brand, based on user experience awet (kokoh), Harga promonya comparable dengan kompetitor
Fumigation instrument	Portable clean room area micro	Fumigasi clean area QC	1	IDR 190,000,000	IDR 190,000,000	Baskuma Pro	Harga terendah
					IDR 4,024,602,980		

Belum perlu kalau mau pake RTU media

P1 Support

Kualifikasi water system
Bioburden/microbial limit, endotoxin, PH, conductivity, TOC

Kualifikasi HVAC
Bioburden/microbial limit, airborne particle counter

Kualifikasi compressed air
Microbial limit

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