

資料5. 無償資金協力によりNIHに設置予定の機材リスト  
(昭和59年7月12日現在(案))

**RESEARCH EQUIPMENT LIST**

**FOR**

**THE CONSTRUCTION PROJECT OF**

**THE NATIONAL INSTITUTE OF HEALTH**

**KINGDOM OF THAILAND**

N O R T H   W I N G

Virology

Parasitology

Biological Products

Mycology

Bacteriology

Immunology

Component: Virology

Room: Oncogenic Virus Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology

Room: Adenovirus & Herpes Virus Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Autoclave	cap: approx 45lit. with safety device	1	066
2.	Safety Cabinet	3-HEPA filter and 2-high performance blowers sytem working width: approx 840mm	1	384

Component: Virology

Room: Serum Bank

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology

Room: Entero Virus Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
②	Autoclave	cap: approx 45lit. with safety device	1	066
<del>3.</del>	<del>Bio-microscope</del>	<del>binocular, built-in illuminator magnification 1500X</del> <i>Cancel.</i>	<del>1</del>	<del>006</del>
④	CO <sup>2</sup> Incubator	water jacket type, micro processor control system cap: approx 75 lit. with CO <sup>2</sup> cylinder	1	162
	→ Microphotography A.P.P.	<u>(change)</u>	1	
	→ <u>Not faxed.</u>			

Component: Virology
Room: Rubella Lab.

No.	Item	Description	Q'ty	Spec.No.
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1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
2	CO <sup>2</sup> Incubator	water jacket type, micro processor control system cap: approx 75 lit. with CO <sup>2</sup> cylinder	1	162
3	Inverted Microscope	magnification: 40-400X for observation, binocular type	1	006
<del>4.</del>	<del>Bio-microscope</del>	<del>binocular, built-in illuminator magnification 1500X</del>	<del>2</del>	<del>001</del>

Cancel

→ Change ↓

1)	Microphotography A.P.P. (Nikon type)		1.	
2)	" " (Olympus type)		1.	
3)	Low speed centrifuge	table top type	1.	
4)	Autoclave	small type	1.	

→ Not fixed

Component: Virology
Room: Hepatitis Virus Lab. (WHO Center)

No.	Item	Description	Q'ty	Spec.No.
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1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
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Component: Virology

Room: Para-myxovirus Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology

Room: Myxovirus Lab. LAB.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology

Room: Storage

No.	Item	Description	Q'ty	Spec.No.
①	Freezer	-20 deg. c, cap: approx 420lit. vertical type	1	022
②	Ultra deep freezer	-85 deg. c, cap: approx 300lit. chest type	1	027

→ NOT fixed

移設の Freezer の設置と 27 の設置

Component: Virology
Room: Glassware Washing Room

No.	Item	Description	Q'ty	Spec.No.
1.	Pipette washer	ultrasonic wave energy combined jets of water type (desk top)	1	083

Component: Virology
Room: Rabies Diagnosis Lab.

No.	Item	Description	Q'ty	Spec.No.
①	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
2.	Homogenizer	motor: 100W, rpm: approx 18000 cap: 30-1000m lit.	1	

→ Not fixed  
 新設の Safety Cabinet の設置と調整は完了

Component: Virology
Room: Arbovirus Isolation Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
2.	<del>Freezer</del> Cancel	<del>-20 deg. c, cap: approx 420lit. vertical type</del>	<del>1</del>	<del>027</del>
3.	<del>Autoclave</del> Cancel	<del>cap: approx. 45lit. with safety device</del>	<del>1</del>	<del>066</del>

Component: Virology
Room: Media & Reagent Pre. Room

No.	Item	Description	Q'ty	Spec.No.
①	Spectrophotometer		1	294
②	PH Meter		1	290
3.	Water Filter App.	Sitz type set.	1	
→ Not fixed				

Component: Virology
Room: Rickettsia Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology
Room: Clamydia Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384



Component: Virology

Room: Rabies-Serology & Vaccine Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
1.	Fluorescent Microscope	magnification: 18X-1500X for observation, illumination: Kochler system high pressure mercury vapo lamp, trinocular w/photography A.C.C.	1	005

Component: Virology

Room: Hepatitis Virus Vaccine Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

Component: Virology

Room: Cell Line Supply Room

(Arbo. V. serology unit)

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381

※此の部屋の件についての最終決定は俵井先生と野村  
との討議の上で決定致す

Component: Virology

Room: Walk-In Refrigerator

No.	Item	Description	Q'ty	Spec.No.
1.	Colum Chromatograph		1	224
2.	Fraction Collector		1	225

Component: Parasitology

Room: Parasitology & Protozoology

No.	Item	Description	Q'ty	Spec.No.
1.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
2.	<del>Clean Bench</del> Safety Cabinet	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
3.	Autoclave	cap: approx 45lit. with safety device	1	066

(N) Electric balance

cap: 200g Sens: 0.1mg

1

(N) Rotating shaker

1

(N) Water bath

1

→ Take Not. Item

Component: Parasitology

Room: Malariology lab.

No.	Item	Description	Q'ty	Spec.No.
1.	<del>Clean Bench</del> Safety Cabinet	vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381

- (N) Auto clave /
- (N) Centrifuge /
- (N) Fixing Shaker /
- (N) stereo microscope /
- (N) Bio-microscope /

→ Take Note Item

Component: Development & Control of Biological Products

Room: Chemical Test Room

No.	Item	Description	Q'ty	Spec.No.
1.	Refrigerator	<u>Take Note.</u> 2 ~ 3 8 4 2 ①		026
2.	Fume Hood		1	156
3.	Kjeldahl Apparatus		1	413
4.	PH Meter		1	290
5.	Vacuum Drying Oven		1	155

Component: Development & Control of Biological Products

Room: Toxoid & Sera & Antitoxin Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
2.	Clean Bench	- do -	1	381
3.	Electrophoresis App.		1	391
4.	Bllod Cell Counter		1	372
5.	Incubator	inner dimensions: 900x500x500mm with stand	1	164

Component: Development & Control of Biological Products

Room: Live & Killed Bacterial Vaccine Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
2.	Clean Bench	- do -	1	381

Component: Development & Control of Biological Products

Room: Standard & Reference Prep. & Development Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	<del>Vacuum Oven</del> Hot Air Oven	Change to $\downarrow$ (45x40x40cm desk-top type)	1	155

Component: Development & Control of Biological Products

Room: Live & Killed Viral Vaccine Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
2.	Clean Bench	- do -	1	381

Component: Mycology

Room: Examination, Isolation & Identification Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Microscope	binocular, magnification: 40-1500X for observatopm, illumination: built-in, Koehler system	1	002
2.	Microscope	trinocular, magnification: 8-1500X for observation, illumination: built-in, Koehler system <u>w/phase contrast set.</u>	1	003
3.	Low-temp. Incubator	approx inner dimensions: 600x425x1000 (compressor: 200W)	1	165
4.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381

-④ Microphotography A.P.P.

-④ Centrifuge desk-top type

-④ Magnetic stirrer w/hotplate

->Take Note

Component: Mycology

Room: Histopathology Lab.

No.	Item	Description	Q'ty	Spec.No.
(N) 1.	Microtome set.		1.	
(N) 2	Microscope.	w/phase contrast a.c.c. and Microphotography A.P.P. (Nikon)	1.	
→ Take Note Item				

Component: Mycology

Room: Cryptococcosis Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
(N) 2.	Low-temp Incubator		1.	
(N) 3.	Microscope		1.	
→ Take Note Item				

Component: Bacteriology

Room: Anaerobe Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Co <sup>2</sup> Incubator	water jacket type, cap: approx 75lit.	1	162
2.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
1.	Inverted Microscope (NIKON)	magnification: 40-200X for observation trinocular, illumination tungsten lamp with condenser lens	1	006
2.	<del>Liquid</del> Gas Chromatograph	(TCD. set.)	1	
3.	Safety Cabinet		1	
(N)	Deep Freezer	Vertical type -85°C	1	
(N)	Autoclave	small type	1	

> Take Note Item

Component: Bacteriology

Room: Miscellaneous Bacteria Culture Collection Room

No.	Item	Description	Q'ty	Spec.No.
1.	Spectrophotometer	concave grating, wavelength range: 200-900nm UV-VIS spectral and width: 7nm wavelength accuracy: +/-1.5nm	1	294
2.	Low-temp. Incubator	approx inner dimensions: 600x425x <sup>500</sup> <del>400</del> (compressor: 200W)	1	<del>165</del>
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384
1.	Fluorescent Microscope	magnification: 18X-1500X for obser- vation, illumination: Kochler system high pressure mercury vapo lamp, trinocular	1	005
2.	Microphotograph App.	fully automatic type	1	011

① water bath  
→ Take Note Item



Component: Bacteriology

Room: Media Preparation Room

No.	Item	Description	Q'ty	Spec.No.
1.	Water Refiner		1	
2.	KOCH Sterilizer	for agar sterilization use	1	
3.	Autoclave	small type cap: approx 45lit.	1	066
4.	Hot Plate		1	245
2.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
3.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381

Component: Bacteriology

Room: Antisera & Antigen Production Room

No.	Item	Description	Q'ty	Spec.No.
<del>1.</del>	<del>Clean Bench</del>	<del>vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm</del>	<del>1</del>	<del>381</del>
<del>1.</del>	<del>Chromatograph</del>	<del>with fraction collector</del>	<del>1</del>	
1.	Safety Cabinet		1	
2.	Autoclave		1	
3.	glass distiller		1	

Component: Bacteriology

Room: National Phage Typing Center

No.	Item	Description	Q'ty	Spec.No.
<del>1.</del>	<del>Clean Bench</del> (R33P) 12 Safety Cabinet.	<del>vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm</del>	<del>1</del>	381
2.	Chromatograph	with fraction collector	1	

Component: Bacteriology

Room: National Salmonella & Shigella Center

No.	Item	Description	Q'ty	Spec.No.
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	2	384
2.	Chromatograph	with fraction collector	1	
<del>3.</del>	<del>Gas Chromatograph</del>	<del>cancel</del>	<del>1</del>	227
<del>4.</del>	<del>Autoclave</del>	<del>cancel</del> small type cap: approx 45lit.	<del>1</del>	066
5.	Refrigerated Centrifuge	max. speed: 4500rpm, cap: 12m lit.x96 tubes (P-3/RM/R33P)	1	172

Component: Immunology

Room: H.L.A. Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Co <sup>2</sup> Incubator	water jacket type, cap: approx 75lit.	1	162
2.	Autoclave	small type cap: approx 45lit.	1	066
3.	Microscope	binocular, magnification: 40-1500X for observatopm, illumination: built-in, Koehler system	1	002
4.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
5.	Inverted microscope	trinocular, magnification: 40-400X for ovservation illumination Koehler	1	014
6.	Auto-dispenser		1	362
7.	Electrophoresis app.		1	390
8.	Spectrophotometer		1	294
9.	Program Freezer system		1	
10.	Deep freezer	-40 deg.c	1	
11.	Refrigerator	big size, cap: approx 400 lit.	1	023
12.	High speed centrifuge	max. speed: 20000rpm	1	174
13.	Hot Air Oven	inner dimensions: 450x400x400mm	1	153

Component: Immunology

Room: Bacteria Immunology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Roller Tube Incubator	drum: 2 sets, tube 350 pcs dimensions: 100x70x160cm (approx)	1	166
2.	Freezer	-40 deg. c, chest type	1	022
3.	Incubaotr	inner dimensions: 600x500x500mm	1	161
4.	Refrigerated Centrifuge	max. speed: 4500rpm, cap: 12m lit.x96 tubes	1	172
5.	Clean Bench	vetical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
6.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
7.	Filtering Apparatus	filtering bottle cap: 500ml./1000ml. stainless steel funnels with vacuum pump	1	352
8.	Electrophoresis App.		1	390
9.	Shaker	vertical/horizontal shaking system stroke length/40mm	1	358
10.	Drying Oven	inner dimensions: 450x400x400mm	1	150
11.	Centrifuge	max. speed: 6000rpm., 15ml.x32 tubes auto-control type	1	175

Component: Immunology

Room: Virus Immunology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Refrigerator	cap: approx 400 lit.	1	023
2.	Incubator	inner dimensions: 600x500x500mm	1	161
3.	Clean Bench	vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
4.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
5.	Electrophoresis App.		1	390
6.	CO <sup>2</sup> Incubator	water jacket type, cap: approx 75lit.	1	162
7.	Centrifuge	max. speed: 6000rpm., 15ml.x32 tubes auto-control type	1	175

① Inverted Microscope /  
① Autoclave /  
→ Take Note Here

Component: Immunology

Room: Immunochemistry Lab.-1

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench	vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
2.	Chromatograph Chamber	cap: approx 620 lit., double glass door	1	028
3.	Spectrophotometer		1	294
4.	PH Meter		1	290
5.	Electrophoresis App.		1	390
6.	Fraction Collector		1	225
7.	Photoelectric Colorimeter	(for Microplate)	1	291
8.	Autoclave	cap: approx 45lit. with safety device	1	066

Component: Immunology

Room: Immunochemistry Lab.-2

No.	Item	Description	Q'ty	Spec.No.
1.	Refrigerator	cap: approx 400 lit.	1	023
2.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
3.	Auto Dispenser		1	362
4.	Electrophoresis App.		1	390
5.	Fraction Collector	(w/peristal pump. column chromatography.)	1	225
6.	UV Monitor Apparatus		1	
7.	Water Still	distilling cap: approx 1.8lit/h deionized, distilled water storage: 20 lit.	1	134
8.	Centrifuge	max. speed: 6000rpm., 15ml.x32 tubes auto-control type	1	175
9.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

① High Speed Centrifuge 1

② Vacuum pump 1

③ Microscope 1

> Take Note Item

S O U T H   W I N G

Medical Entomology

Medicinal Plant

Biomedical in Food

Pharmaceutical

Enviromental Chemistory



Component: Medical Entomology

Room: Biology & Ecology of Vectors Test Room

No.	Item	Description	Q'ty	Spec.No.
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New Request

(N) 1. Humidifier

1

(N) 2. Temperature hygrometer recorder

1

→ Take Note Item

Component: Medical Entomology

Room: Ectoparasite Lab.-1

No.	Item	Description	Q'ty	Spec.No.
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New Request

(N) 1. Stereomicroscope

(NIKON SMZ-10)

1.

(N) 2. "NIKON" universal illuminator

1.

(N) 3. "Sav-el" plastic slide box (100 pieces)

50

→ Take Note Item

Component: Medical Entomology

Room: Ectoparasite Lab.-2

No.	Item	Description	Q'ty	Spec.No.
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*new request*

①	1. Micro slide tray cabinet.		3	
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②	2 incubator		1	
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→ Take note item

Component: Medical Entomology

Room: Biological Control & Insect Pathology Lab.-2

No.	Item	Description	Q'ty	Spec.No.
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	1. Safety cabinet.	<i>Clean bench</i> (P.-50 24 85 2/3)	1	
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Component: Medical Entomology

Room: Chemical Control & Droplet Testing Lab.-1

No.	Item	Description	Q'ty	Spec.No.
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1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
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Component: Medical Entomology

Room: Chemical Control Bioefficiency Testing Lab.-2

No.	Item	Description	Q'ty	Spec.No.
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*New Request.*

1. Spray cabinet. w/electric fan. 1.

Component: Medical Plant Research

Room: Synthesis of Active Principles & Structure Elucidation Lab.-1

No.	Item	Description	Q'ty	Spec.No.
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*New request.*

① 1. Fume hood 1.

Component: Medical Plant Research

Room: Synthesis of Active Principles & Structure Elucidation Lab.-2

No.	Item	Description	Q'ty	Spec.No.
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*New Request.*

① Fume hood 2

Component: Medical Plant Research

Room: Drug Absorption Metabolism & Excretion Lab.-1, -2

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
<del>2.</del>	<del>Fume Hood</del>	<del>working width: approx 1000mm air curtain system, steel made</del>	<del>1</del>	159

*Cancel*

Component: Medical Plant Research

Room: Quality Control Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
2.	<i>Fume hood</i>	<i>(Chemical study LAB #7)</i>	<i>1</i>	

Component: Medical Plant Research

Room: Extraction, Isolation & Purification Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Medical Plant Research

Room: Sample Prep. for Chemical Work Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

*new request.*

Ⓜ Grinding machine

→ Take Note 1 item

Component: Medical Plant Research

Room: Pharmacological Study Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Medical Plant Research

Room: Sample Prep. for Pharmacological Study

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Medical Plant Research

Room: Bio Chemistry Study Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

*New request.*

- ① Hot Air oven
- ② Rotary Evaporator. (w/circulating water bath)
- ③ UV cabinet.
- ④ Spectrophotometer
- ⑤ Analytical balance
- ⑥ Refrigerator
- ⑦ Hematocrit Centrifuges

→ Take Note Item

Component: Medical Plant Research

Room: Microbiological Study Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Autoclave	cap: approx 45lit. with safety device	1	066
2.	Incubator	inner dimensions: approx 450x400x400mm	1	160
1.	Safety Cabinet	3-HEPA filter and 2-high performance blowers system working width: approx 840mm	1	384

*New request.*

①	Microscope	1
②	Refrigerator	1
③	Centrifuge	1
④	pH meter	1
⑤	Zone reader	1
⑥	Analytical balance	1

Take Note Item

Component: Medical Plant Research

Room: Histopathological Study Lab.

No.	Item	Description	Q'ty	Spec. No.
1.	Histopathological Equipment	Consisting of: 1. Freezing Microtome 2. Slide Microtome 3. Microscope 4. Knife Sharpener. 5. Tissue Waterbath 6. tissue slide dryer. 7. tissue slide staining set. 8. Vacuum infiltration. 9. Tissue processor 10. " filling cabinet. 11. Organ balance.	1	



Component: Environmental Health Science Research

Room: Pollutant Surveillance Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Muffle Furnace	time required to reach 1150 deg.c: 60 min. inside dimensions: 100x150x100mm	1	
2.	Centrifuge	(High speed 20,000 RPM.)	1	175
3.	Hot Plate	plate size: 126mm $\phi$ temp. range: 50-200 deg.c	1	245
4.	Hot Plate	- do -	1	245
5.	Vortex Mixer		1	
6.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
7.	Top-pan Balance	cap: 200g, micrometer reading: 1mg accuracy: +/-1mg	1	341
8.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Environmental Health Science Research

Room: Environmental Toxicologic Evaluation Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Centrifuge		1	175
2.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
3.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
4.	Shaker		1	358
5.	Blender		1	
6.	Hot Plate	plate size: 126mm $\phi$ temp. range: 50-200 deg.c	1	245
7.	Mixer		1	
8.	Refrigerator	cap: approx 400 lit.	1	023
9.	Hot Air Oven	inner dimensions: 450x400x400mm temp. range: 40-250 deg.c	1	153

Component: Environmental Health Science Research

Room: Histology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Slide Cabinet		1	
2.	Microscope	binocular, magnification: 40-1500X built-in illuminator	1	001
3.	Microscope	<del>do</del> - binocular.	1	002 <del>001</del>
4.	Hot plate	plate size: 126mm $\phi$ temp. range: 50-200 deg.c	1	245
5.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Environmental Health Science Research

Room: Toxin Evaluation & Safety Monitoring

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
2.	Refrigerator	cap: approx 400 lit.	1	023
3.	Hot Plate	plate size: 126mm $\phi$ temp. range: 50-200 deg.c	1	245
4.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133
5.	Blender		1	
6.	Shakerr		1	358
7.	Vacuum Evaporator	rotary type, rpm: approx 30-180rpm with 1000ml. glass set	1	411
8.	Balance	analytical type, cap: 200g readability: 0.1mg	1	342
9.	UV Lamp Set		1	

Component: Biomedical Research in Food

Room: Sample Prep. Room

No.	Item	Description	Q'ty	Spec.No.
1.	Blender		1	
2.	Food Cutter		1	
3.	Mill Machine		1	
4.	Balance	top-pan type, cap: 200g	1	341
5.	Cooking Utensils		1	

Component: Biomedical Research in Food

Room: Fungus Toxin Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	UV Lamp Set		1	
2.	T.L.C. Kit		1	
3.	Rotary Evaporator		1	411
4.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159

Component: Biomedical Research in Food

Room: Chemical Lab.-1

No.	Item	Description	Q'ty	Spec.No.
<del>1.</del>	<del>Mercury Analyzer</del>	<del>flameless atomic absorption method sensitivity: 0.005ug</del>	<del>1</del>	
2.	Shaker	<del>Cancel</del>	1	358
3.	Rotary Evaporator		1	411
4.	Hot Plate	with stirrer	1	
5.	Heating Mantle		1	
6.	Fume Hood	working width: approx 1400mm	1	158

Component: Biomedical Research in Food

Room: Chemical Lab.-2

No.	Item	Description	Q'ty	Spec.No.
①	Gas Chromatograph	(F.I.D. & <u>E.C.P.</u> detector type)	1	227
2.	Muffle Furnace	time required to reach 1150 deg.c: 60 min. inside dimensions: 100x150x100mm	1	
4.	Rotary Evaporator		1	411
5.	Blenderte	explosion proof type	1	
6.	Fume Hood	working width: approx 1400mm	1	158
7.	Hot Air Oven	inner dimensions: 450x400x400mm temp. range: 40-250 deg.c	1	153
8.	Refrigerator	cap: 400 lit.	1	023

→ not fixed

→ { 11250245 → E.C.D. 検知器を修理したのか 63Ni の線路  
 の仕様は別且又 RJ 型で分析が可能なものか 一時保留  
 必要

Component: Biomedical Research in Food

Room: Chemical Lab.-3

No.	Item	Description	Q'ty	Spec.No.
1.	Electric Balance		1	
2.	Analytical Balance		1	342
3.	Top-pan balance		1	341
4.	PH Meter		1	290
5.	T.L.C. Kit		1	
6.	Fume Hood	working width: approx 1400mm	1	158

Component: Pharmaceutical Science

Room: Chemical Lab.-1

No.	Item	Description	Q'ty	Spec.No.
1.	Refrigerator	cap: <del>250 lit.</del> 12 cu ft.	1	026
2.	Centrifuge	3500 rpm.	1	
3.	Oven	(Tabai R.H. control type)	1	153
4.	Fume Hood	working width: approx 1000mm air curtain system, steel made	1	159
5.	Water Still	distilling cap: approx 1.8lit/h deionized, distilled water storage: 20 lit.	1	134
6.	Rotary Evaporator	w/aspirator & cooling device.	1	411

Component: Pharmaceutical Science

Room: Chemical Lab.-2

No.	Item	Description	Q'ty	Spec.No.
1.	Spectrophotometer		1	294
②	T.L.C. Kit		1	
3.	Liquid Chromatograph	"HITACHI"-655 type	1	226
4.	Balance	Cap: 160g. Sensi: 0.1mg		
		→ Consisting of:		
1.		Spreading table + Levelling device		
2.		Spreading device		
3.		" Template		
4.		Carrier plate 200x50 <sup>mm</sup> & 220x200mm		
5.		Standard chamber.		
6.		drying rack.		

Component: Pharmaceutical Science

Room: Bacterial Endotoxin Test Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Low Temp Incubator Incubator	inner dimensions: approx 450x400x400mm	1	160
2.	Hot Air Oven	inner dimensions: 450x400x400mm	1	153
3.	Centrifuge	3.400rpm.	1	
4.	<del>Clean Bench</del> Safety Cab'net	vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm	1	381
5.	Water Bath	temp control accuracy: +/-0.02 deg.c time required: approx 45min stainless steel by press work without seams	1	133

New Request.

① Refrigerator

12 cuft.

→ Take Note Item

Component: Pharmaceutical Science

Room: Pharma. Chemi. Radioimmunoassay Lab.

No.	Item	Description	Qty	Spec. No.
1.	Tube Mixer		1	
2.	Dry Bath Incubator		1	
3.	Fraction Collector	W/UV detector. & column chromatograph	1	
4.	Water Bath	temp control accuracy: $\pm 0.02$ deg.c time required: approx 45min stainless steel by press work without seams	1	133
5.	Refrigerator	cap: 260 lit.	2 X	026
6.	Refrigerated Centrifuge	for RIA type.	1	172
7.	Ice Maker	34kg/day, storage cap: 21kgs	1	024
8.	<del>Freeze Dryer</del> Deep Freezer	$-40^{\circ}\text{C}$ 24 cuft.	1	
9.	Hot Air Oven		1	153
	(N) Vortex Mixer		1	



Component: Pharmaceutical Science

Room: Microbiological Assay Lab.-1

No.	Item	Description	Q'ty	Spec.No.
1.	Clean Bench Safety Cabinet	(vertical laminar flow with air curtain, cleanliness: class 100 working width: approx 1000mm)	1	381
	New request.			
①	Refrigerator	cap. 12 cuft.	1	
②	Analytical balance	cap 160g 0.1mg	1	
③	Water bath	upto 100°c	1	
④	Tube mixer		1	
⑤	Zone Reader		1	

Component: Pharmaceutical Science

Room: Microbiological Assay Lab.-2

No.	Item	Description	Q'ty	Spec.No.
1.	Autoclave	cap: approx 45lit. with safety device	1	066
2.	Incubator	innder dimensions: <del>450x400x400</del> mm 900x450x600 <sup>mm</sup>	1	160

*New Request.*

Ⓝ	Refrigerator		1.
Ⓝ	pipette washer	w/dryer	1.
Ⓝ	Hot Air oven	desk-top	1.
Ⓝ	Counter balance	cap. 2.5kg	1.
Ⓝ	Waring blender		1.

→ Take Note Item

C E N T E R

R.I. Lab.

Biohazard Lab.

Scientific Equipment Center

Animal Center

Component: Scientific Equipment Center

Room: Biohazard Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Biohazard Safety Cabinet	class-IIb type(NIH) working space: 1290x500x580mm	1	385
2.	Biohazard Safety Cabint	- do -	1	385
3.	Working Table		1	
4.	Pas Box	inter-locking system with a buzzer	1	
5.	Autoclave	through door type	1	

Component: Scientific Equipment Center

Room: Radioisotope Research Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Hand Foot Cross Monitor		1	

Component: Scientific Equipment Center

Room: R.I. Counting Room

No.	Item	Description	Q'ty	Spec.No.
1.	Survex Meter		1	
2.	Scintillation Spectrometer		1	

Component: Scientific Equipment Center

Room: R.I. Lab.-1

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	oak ridge type dimensions: 1500x800x2300mm	1	156

Component: Scientific Equipment Center

Room: R.I. Lab.-2

No.	Item	Description	Q'ty	Spec.No.
1.	Fume Hood	California type double sided dimensions: 1500x850x2300mm	1	157
1.	Fume Hood	Oakridge type	2	

Component: Scientific Equipment Center

Room: Work Shop

No.	Item	Description	Q'ty	Spec.No.
1.	Desk-top Lathe		1	
2.	Oscilloscope	digital multimeter type band-width: DC-5Mhz sensi: 5mv/div-10v/div power source AC DC, digital	* 2	
3.	Circuit Tester	digital system (conventional)	* 6	
4.	Voltmeter	digital indicator type	* 3	
5.	Tool Set		* 3	
6.	Drill Machine		1	
7.	Welding Machine		1	
(N)	Clamp ammeter.		2	
(N)	iron vice clamp		1	
(N)	electric saw.		1	
(N)	Metal folding machine		1	

Component: Scientific Equipment Center

Room: E.M. Specimen Prep. Room

No.	Item	Description	Q'ty	Spec.No.
1.	Ultra Microtome		1	
2.	Critical Point Dryer		1	
3.	High Vacuum Evaporator		1	412

Component: Scientific Equipment Center

Room: Dark Room

No.	Item	Description	Q'ty	Spec.No.
1.	Film Processor		1	
2.	Enlarger		1	
3.	Dark Room Accessory Set		1	

*new request. (optical)*

①	stabilized High voltage supplier.		1	
①	Monochrometer		1	
①	Spectrum analyzer		1	
①	Low-power He-Neon laser generator.		1	
①	Photomultiplier tube		1	

Component: Scientific Equipment Center

Room: Scanning E.M. Room

No.	Item	Description	Q'ty	Spec.No.
1.	Scanning Electron Microscope		1	014

Component: Scientific Equipment Center

Room: Transmission E.M. Room

No.	Item	Description	Q'ty	Spec.No.
1.	Transmission Electron Microscope	100KV	1	016

Component: Scientific Equipment Center

Room: Analytical Room-3

No.	Item	Description	Q'ty	Spec.No.
1.	Ultra High Speed Centrifuge	55,000rpm. w/sonal Rotor set	1	176
2.	Working Table		1	
3.	Rotar Cabinet	steel made	1	
4.	Centrifuge Cabinet	steel made	1	



Component: Scientific Equipment Center

Room: Scientific Photograph Center

No.	Item	Description	Q'ty	Spec.No.
1.	Slide Making Machine		1	
2.	Organ Photographic Stand with copy desk		1	
3.	Print Dryer		1	

*New Request.*

1.	<i>Enlarger</i>		<i>1.</i>	
2.	<i>Film processor</i>		<i>1.</i>	
3.	<i>Dark R'm. accessories set.</i>		<i>1.</i>	

Component: Scientific Equipment Center

Room: Analytical Room-4

No.	Item	Description	Q'ty	Spec.No.
1.	UV-VIS Spectrophotometer		2	228
2.	IR-Spectrophotometer		1	
3.	<i>T.L.C. densitometer</i>		<i>1.</i>	

Component: Scientific Equipment Center

Room: Preparation Room

No.	Item	Description	Q'ty	Spec.No.
1.	Ice Maker		1	024
2.	Refrigerated Centrifuge	max speed: 5000rpm	1	172
3.	Ultrasonic Cleaner	desk top type, output: 200W dimensions: 500x146x152mm	1	
4.	Water bath		1	133
5.	Fraction Collector	with chromatograph	1	
6.	Freeze Dryer		1	
7.	Lab. Wagon		1	
8.	Tube Mixer	applicable for test tube, centrifuge tube, 100ml. flask etc.	1	
9.	Dry Ice Maker		1	
10.	Hot Air Oven		1	153
11.	Analytical Balance		1	342
12.	Top-pan Balance		1	341
13.	PH Meter		1	290
14.	Centrifuge	max speed: 6000rpm, 14ml.x36 tubes	1	
15.	Refrigerator	cap: 250 lit.	1	026

Component: Scientific Equipment Center

Room: Analytical Room-1

No.	Item	Description	Q'ty	Spec.No.
1.	Atomic Absorption Spectrophotometer		1	230
2.	Gas Chromatograph		1	227
3.	Gas Chromatograph		1	227
4.	Top-pan Balance		1	341
5.	Working Table		1	

Component: Scientific Equipment Center

Room: Analytical Room-2

No.	Item	Description	Q'ty	Spec.No.
1.	High Performance Liquid Chromatographeter		1	226
<del>2.</del>	<del>T.L.C. Densitometer</del>		<del>1</del>	
4.	Working Table		1	

Component: Animal Experiment Center

Room: Washing Sterilizing Room

No.	Item	Description	Q'ty	Spec.No.
<del>1.</del>	<del>Gage Washer</del>	<del>200-300 mouse cage/h conveyor speed: 2.3m/min</del>	<del>1</del>	
2.	Autoclave	through double-door type inner dimensions: approx 700x1000x900mm	1	
3.	E.O. Gas Sterilizer	through double-door type inner dimensions: approx 500x500x900mm	1	
4.	Aseptic Box	type A/20pcs, type B/30pcs	1set	

Component: Animal Experiment Center

Room: Waste Storage

No.	Item	Description	Q'ty	Spec.No.
1.	Refrigerator	cap: approx. 400 lit.	1	023
2.	Food Container	size: 1200x400x1200mm cap: 40kgx3/set, stainless steel made	1set	

Component: Animal Experiment Center

Room: Washing & Sterilizing Room (Medical Entomology)

No.	Item	Description	Q'ty	Spec.No.
1.	Hot Air Oven		1	153
2.	Autoclave		1	066
3.	Refrigerator		1	026
4.	Working Table		1	

Component: Animal Experiment Center

Room: Animal Breeding Equipments(1st floor)

No.	Item	Description	Q'ty	Spec.No.
1.	Breeding Shelf	for mouse, rat & guinea pig	6	
2.	Mouse Cage		100	
3.	Rat Cage		100	
4.	Guinea Pig Cage		25	
5.	Breeding Shelf	for rabbit	2	
6.	Rabbit Cage		40	
<del>7.</del>	<del>Dog Holder</del>	<i>cancel</i>	<del>1</del>	
<del>8.</del>	<del>Dog Cage</del>	<i>cancel</i>	<del>10</del>	
9.	Animal Balance	<i>3A</i> for mouse, rat <i>3A</i> for rabbit	1set	
10.	Water Bottle Set	each type	300sets	
11.	Feeding Box	each type	300sets	

Component: Animal Experiment Center

Room: Animal Breeding Equipments(2nd floor)

No.	Item	Description	Q'ty	Spec.No.
1.	Breeding Shelf	for mouse, rat & guinea pig	30	
2.	Rat Cage		300	
3.	Mouse Cage		300	
4.	Guinea Pig Cage		100	
5.	Breeding Shelf	for rabbit	15	
6.	Rabbit Cage		200	
<del>7.</del>	<del>Dog Cage</del>	<i>cancel</i>	<del>10</del>	
8.	Monkey Cage		10	
9.	Water Bottle Set		700	
10.	Feeding Box		700	
11.	Vinyle Isolator		2	
12.	Vinyle Isolator	operation type	<del>2</del>	
13.	Vinyle Isolator Compressor		2	
14.	Autoclave	for vinyle isolator	1	
15.	Working Table	size: 900x600x750mm stainless steel made	10	
16.	Monkey Chair		1	
17.	Utility Cart		8	
18.	Thermo-hygrograph	recording time/7 days	<del>20</del>	
19.	Animal Balance	<sup>6</sup> for rat & mouse, <sup>5</sup> for rabbit <del>2</del> for medium size animal	1set	
20.	Basin Stand	steel made with stainless steel basin	20	

Component: Animal Experiment Center

Room: ~~Biochemical Lab. 4~~  
SPF Animal R'm.

No.	Item	Description	Q'ty	Spec.No.
1.	Clean rack system	Rat. Mouse type w/blower set.	1	set.
2.	Working table		1	
3.	Pass box		1	

Component: Animal Experiment Center

Room: Physiology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	<del>Polygraph</del> 音叉器		1	
	1.	Myograph	1.	
	2.	Kymograph	1.	
	3.	Organ bath (temp control)	1.	
	4.	Digital Blood pressure indicator w/recorder	1.	

Component: Animal Experiment Center

Room: Pyrogen Test Room

No.	Item	Description	Q'ty	Spec.No.
1.	Rabbit Fixer	with pyrogen test shelf	1	
2.	Pyrogen Test Equipment		1	
3.	Kymograph Set		1	

Component: Animal Experiment Center

Room: Autopsy-1

No.	Item	Description	Q'ty	Spec.No.
1.	Animal Operation Table	stainless steel made small size animal use	1	
2.	Operating Lamp	stand type	1	
3.	Animal Balance		1	

Component: Animal Experiment Center

Room: Autopsy-2

No.	Item	Description	Q'ty	Spec.No.
1.	Animal Operation Table	stainless steel made small size animal use	1	
2.	Operating Lamp	stand type	1	
3.	Animal Balance		1	



Component: Animal Experiment Center

Room: Autopsy-3

No.	Item	Description	Q'ty	Spec.No.
1.	Animal Operation Table	stainless steel made medium sized animal use	1	
2.	Operating Lamp	stand type	1	
3.	Animal Balance	medium animal use	1	

Component: Animal Experiment Center

Room: Pathomorphology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Low-temp. Incubator		1	163
2.	Incubator		1	161
3.	Centrifuge		1	175
4.	Hematocrit Centrifuge		1	173
5.	Balance	top-pan type	1	341
6.	Refrigerator	cap: 250 lit.	1	026

Component: Animal Experiment Center

Room: Immunology Lab.

No.	Item	Description	Q'ty	Spec.No.
1.	Microscope		1	002

Component: Animal Experiment Center

Room: Washing & Sterilizing Room(Hazard Area)

No.	Item	Description	Q'ty	Spec.No.
1.	Autoclave	inner dimensions: approx 650x920x700mm through type	1	
2.	Pass Bos	stainess steel made inter-locking system	1	

Component: Animal Experiment Center

Room: Inoculation Room

No.	Item	Description	Q'ty	Spec.No.
1.	<del>Clean Bench</del> Safety cabinet		1	381

Component: Animal Experiment Center

Room: Infected Animal Equipment

No.	Item	Description	Q'ty	Spec.No.
1.	<del>Dog Gage</del>	Cancel	<del>4</del>	
2.	Infection Breeding Draft	4 for mouse, 4 for rat	8	
3.	Exhause Processor	wind volume: 4.5m <sup>3</sup> /min	2	
4	Animal balance			

JICA