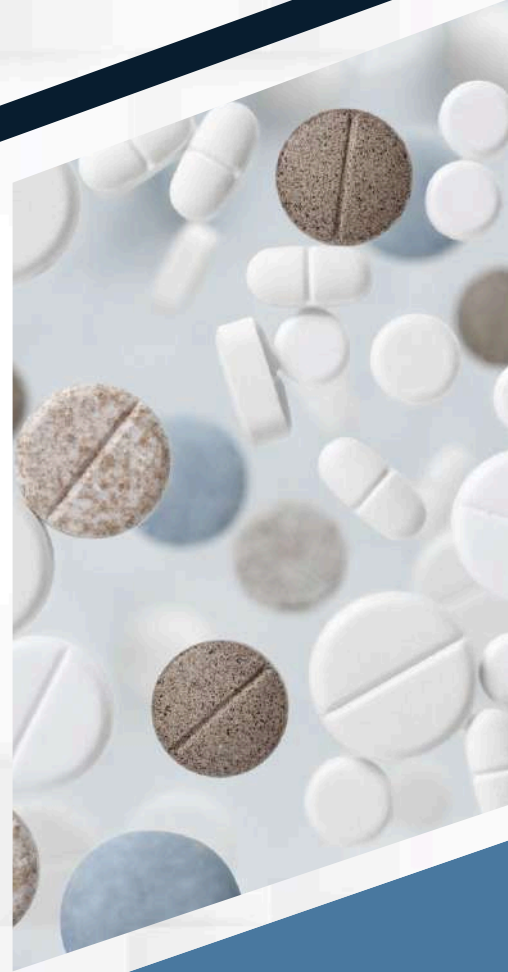


PHARMACEUTICAL TEST INSTRUMENTS AND HERBAL EXTRACTION PROCESS



Contact Us

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 02-742-7035-6

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ASI THAILAND

Applied Scientific Management Consultants Pte. Ltd. was established in 1986 in Singapore under UK management, to provide a range of regional management services to overseas manufacturers of laboratory instrumentation interested in developing Asian markets and requiring assistance in establishing Asian distribution networks for their products, along with ongoing regional distributor management. A branch of the company was established in Thailand in 1998.

The establishment of Applied Scientific Instruments Co. Ltd., followed in 2000 as an Anglo-Thai venture with UK management and Thai marketing, sales and service staff. The company was formed to provide our own sales division to service expanding markets in Thailand, and to offer a select range of products from overseas manufacturers, specifically chosen as a result of our market research and in direct response to end-users requests.



ASI offers a unique blend of products to customers in a variety of industries including petroleum, petrochemical, edible oils, foods, beverages, brewing, pharmaceutical, paper, pulp and packaging, university and research departments, and strives to provide our customers with the highest quality in sales, service and customer support. To assist us in maintaining this level of service, our marketing team constantly monitors industry requirements, conducting meaningful and effective market analyses.



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ศูนย์รวมเครื่องมือวัด เครื่องมือทดสอบ เครื่องมือวิทยาศาสตร์ทุกชนิด

TESTING INSTRUMENTS

Products Highlight 2023

Planetary Mixer



Laser Particle Size Analyzer



Particle Size and Shape Analyzer



Nanoparticle Size & Zeta Potential Analyzers



Automatic Powder Characteristics Tester



Manual Powder Characteristics Tester



Polarimeter



Refractometer



DSG Series Density Meters



Viscometer



Texture Analyzer



Melting Point



Heated Circulating Baths



Ultrasonic bath



Hot Air Oven



Incubator



Furnace



Tensiometer



Flame photometer



Automatic Colorimeter



Spectrophotometer



Autoclave



Freeze dry



Glassware Washer



Molecular Distillation



Cannabis Analyzer



Fermentor



Ultrasonic Liquid Processor



Extraction Equipment



Purification Equipment



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Extraction Equipment/เครื่องสกัดสารโดยใช้หลักการ Supercritical Fluid Extraction



SUPERFAST™ 2x9

Capacity: Up To 60 Kg/Day



SUPERFAST™ 2x1650

Capacity: Up To 5,000 Kg/Day



SUPERFAST™ 2x25

Capacity: Up To 120 Kg/Day

Purification Equipment/ เครื่องแยกสารให้บริสุทธิ์



ISOLATOR™ SFC 10

Purification Capacity: Up to 4 kg/day



SUPERFAST™ 2x120

Capacity: Up To 480 Kg/Day



ISOLATOR™ SFC 20

Purification Capacity: Up to 20 kg/day



SUPERFAST™ 2x360

Capacity: Up To 1,200 Kg/Day



ISOLATOR™ SFC 60

Purification Capacity: Up to 80 kg/day



SUPERFAST™ 2x720

Capacity: Up To 2,200 Kg/Day



Molecular Distillation / Short Path Distillation



Cryo-Ethanol-Extraction



**Ethanol-Recovery
& Decarb-System**



**Molecular
Distillation
Basic**



**Molecular
Distillation
Professional**



**Two-Stage Molecular
Distillation
High-End**





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Ultrasonic Liquid Processor/เครื่องกวนผสมสารอนุภาคนาโน

LSP-600 Laboratory-Scale Processor



- Ultrasonic generator (600 W)
- Input voltage: 100 Vac – 240 Vac
@ 50/60 Hz
- Rated current: 10 Amps max.
- Output characteristics: 600 W (max.),
20 +/- 1 kHz (max.)

BSP-1200 Bench-Scale Processor



- Ultrasonic generator (1200 W)
- Input voltage: 100 Vac – 240 Vac
@ 50/60 Hz
- Rated current: 20 A max. 10 A max.
- Output characteristics: 1200 W
(max.), 20 (+/- 1) kHz



ISP-3600 Industrial-Scale Processor



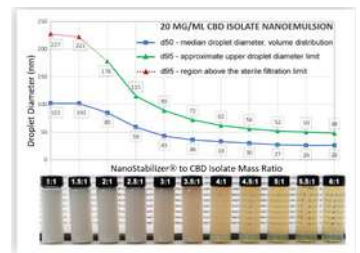
- Ultrasonic generator (3600 W)
- Input voltage: 220 Vac – 240 Vac
@ 50/60 Hz
- Rated current: 20 A max.
- Output characteristics: 3600 W (max.),
20 (+/- 1) kHz, 3600 W (max.)



ALL-IN-ONE NANOSTABILIZER®-LT



ALL-IN-ONE NANOSTABILIZER®-LSO



Cannabis Analyzer/เครื่องทดสอบสารสำคัญ จากผลิตภัณฑ์กัญชา กัญชา

Cannabinoid Test Kit



ALPHA-CAT®

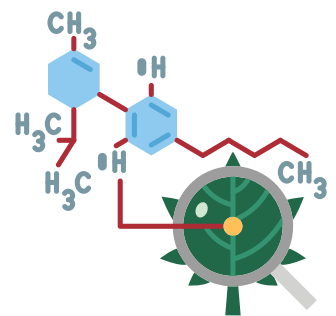


ชุดทดสอบองค์ประกอบหลักของน้ำมันกัญชาอย่างง่าย (Cannabinoid Analysis Test Kit) สามารถทดสอบค่าความบริสุทธิ์ของสารสกัดกัญชาได้สูงถึง 6 ชนิด ได้แก่ Cannabidiol (CBD), Cannabinol (CBN), Tetrahydrocannabinol (THC), Tetrahydrocannabivarin (THCV), Cannabigerol (CBG) และ Cannabichromene (CBC) ความแม่นยำ +/- 1% ใช้ตัวอย่างน้อยเพียง 0.1 กรัมต่อการทดสอบ

Orange Photonic LightLab3

LAB ACCURATE. IN-HOUSE. IN ORANGE.

LightLab comes with standard capabilities designed to support typical cannabis quality control requirements. You can add a variety of modules to maximize LightLab's capabilities



LightLab 3



FEATURES

- ✓ • 0-100% cannabinoid content
- ✓ • Results in 10 minutes
- ✓ • Easy sample preparation
- ✓ • 8-hour battery life
- ✓ • Wi-Fi enabled
- ✓ • Mobile Monitoring
- ✓ • Certificate of Analysis

Sample Types

- Flower
- Biomass
- Young plant
- Concentrates
- Processed waste
- Tinctures
- Infused products

• Ultra-Low Detection Limits

With 30 times higher sensitivity than LightLab 3, LightLab 3HS can quantify cannabinoids below 2 ppm. That gives LightLab 3HS analysis capability from 99% isolate all the way down to a 1mg infused beverage.

• Products Measured

Beverages, gummies, chocolates, baked goods, hard candies, mints, nanoemulsions, taffy, enhancers, plant, pet products, concentrates, biomass, young plant, processed waste, tinctures, isolate. Custom mode.

High Sensitivity



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Bettersize

- Bettersizer 2600
- Bettersizer S3 Plus
- PowderPro M1
- PowderPro A1
- BeNano 90 Zeta



Bettersizer 2600

Laser Particle Size Analyzer
(Dry & Wet Dispersions)

Particle size

0.02 to 2600µm (Wet) 0.1 to 2600µm

(Dry)



Bettersizer S3 Plus

Particle Size and Shape Analyzer

0.01 to 3500 µm (Laser System)

2 to 3500 µm (Image System)



BeNano 90 Zeta

Nanoparticle Size and
Zeta Potential Analyzers

Particle size, Zeta potential and
Molecular weight

PowderPro M1

Manual Powder

Characteristics Tester

Manual analysis of
macroscopic, physical
properties of a powder



PowderPro A1

Automatic Powder

Characteristics Tester

Fully automatic analysis of
macroscopic, physical
properties of a powder

BeScan Lab

Stability Analyzers

Non-destructive testing: non-
contact, non-diluting, and non-
shearing



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High Pressure Homogenizers (HPH)



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The **STANSTED** High Pressure Homogenisers provide exceptional performance, versatility and repeatable for multiple applications, cell types and materials. Process volumes from Lab R&D scale to production systems with leading pressure capability and temperature control.



Laboratory Homogenizers



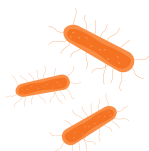
Pilot - R&D Homogenizers



Production Homogenizers

Providing the most efficient Cell Lysis and the best particle size control - from nm to μm - for Nanoemulsions and Liposome preparation and other applications. With high operating reliability our systems have typically lower running costs. And our designs ensure easy maintenance and cleaning with CIP and SIP capability.

Cell Types and Materials



E. coli



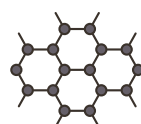
Yeasts



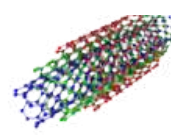
Microalgae



Cannabinoids



Graphene Carbon



Nanotubes



Nanocellulose

High Pressure Homogenizer Applications



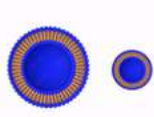
Cell Disruption



Particle Size



Reduction Nanoemulsions



Liposomes Lipid



Nanoparticles



Polysaccharides



Nanoencapsulation



Other Applications

THE STANSTED RANGE

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BIOREACTOR



Applied Scientific Instruments Co., Ltd.

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ถังปฏิกรณ์ชีวภาพ (Bioreactor)

Magnetic Stirring Glass Bioreactor BLBIO-GC



Total volume

- 0.2L, 0.5L, 1L, 2L, 3L, 5L, 10L, 20L, 30L, 40L etc.

High-Throughput Micro-Bioreactor Waterless Temperature-Controlled Fermenter



Total volume

- Maximum total volume size is 2L.

Mechanical Stirring Glass Fermenter BLBIO-GJ



Total volume

- 0.2L, 0.5L, 1L, 2L, 3L, 5L, 10L, 20L, 30L, 40L etc.

Mechanical Stirring Glass Bioreactor (New Program Control Box)



Total volume

- 0.2L, 0.5L, 1L, 2L, 3L, 5L, 10L, 20L, 30L, 40L etc.

Mechanical Stirring Stainless Steel Fermenter BLBIO-SJA



Total volume

- 5L, 10L, 15L, 20L, 30L, 50L, 100L, 200L, 500L, 1000L, 5KL, 50KL, 200KL etc.

Stainless steel Bioreactor (Mammalian cell) BLBIO-SCUC



Total volume

- 5L, 10L, 15L, 20L, 30L, 50L, 100L, 200L, 500L, 1000L, 5KL, 10KL etc.

Vaccine fermenter (GMP) Microbial Bioreactors



Total volume

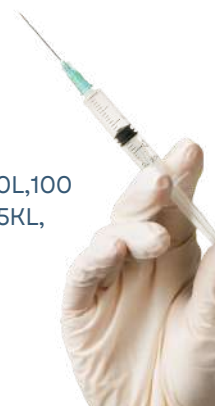
- 5L, 10L, 15L, 20L, 30L, 50L, 100L, 200L, 500L, 1000L, 2KL, 5KL, 10KL etc.

Industrial Scale Fermenter / Bioreactor



Total volume

- 5L, 10L, 15L, 20L, 30L, 50L, 100L, 200L, 500L, 1000L, 5KL, 50KL, 200KL etc.



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BetterPyc 380



BetterPyc 380



BetterPyc 380-S



BetterPyc 380-F



BetterPyc 380-FS



General	
Measuring Principle	Gas Displacement Method
Measuring Parameters	Volume, Density, Solid Content, Open Cell Content
Cup Capacity	10 cm ³ , 35 cm ³ , 100 cm ³ (nominal)
Measurement Performance	
Sample Volume	1 -100 cm ³
Temperature Range	15-55 °C
Temperature Stability	0.1 °C
Transducer Accuracy	≤ 0.1%
Accuracy	0.03%
Repeatability	0.01%
Resolution	0.0001 g/cm ³
Analysis Gas	
Pressure Range	0 - 22 psig (0 - 152 kPag)
Type	Helium or Nitrogen (suggested)
Instrument Dimensions	
Weight	10.6 kg
W×D×H	345 mm × 297 mm × 221 mm
Supply Voltage	100/240 V, 50/60 Hz
Software	
System	Windows 7 or higher
Connections	USB ports



Bettersize
BETTER PARTICLE SIZE SOLUTIONS

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Polarimeters/เครื่องวัดการโพลาไรซ์แบบดิจิทัล



ADP600 Polarimeter

The ADP600 Series Polarimeters have two preset operating temperatures being 20 and 25 °C in accordance with European and United States Pharmacopoeia respectively and other user temperatures between 20 and 30°C may be configured via the instrument user interface.



- Simple Methods system
- Accepts standard & low volume sample tubes
- Supports FDA regulation 21 CFR Part 11
- US/EP/BP/JP compliant

ADP600 Series Polarimeters accept standard glass or special low volume leur taper polarimeter tubes facilitating measurement across optical path lengths between 5 and 200m with tube diameters from 3 to 8mm being readable. Optional lids may be easily be fitted to the ADP600 Series Polarimeters, facilitating sample tube entry and exit.

- 7" High definition touchscreen display
- Flat prism surface for easy-cleaning
- Wide beam scan for non-homogenous samples
- 3 Decimal place Brix precision (6 d.p. RI)
- RFID user clearance
- PHR-MEAN Method
- USP/EP/BP/JP compliant
- Supports FDA 21 CFR Part 11
- **Model : RFM330-T, RFM340-T**

Digital Refractometer/ เครื่องวัดความหวาน แบบดิจิทัล

RFM300-T Series



DSG Series Density Meters/ เครื่องวัดความหนาแน่นของตัวอย่าง



Simple

- Easy to use and clean
- Touchscreen operated
- METHODS based
- Optional keyboard & mouse support
- Choice of 2 unique models

Precise

- Excellent reproducibility
- 20 second read time
- Peltier Temperature Control
- FDA 21 CFR Part 11 compatible
- Detailed audit trails





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ศูนย์รวมเครื่องมือวัด เครื่องมือทดสอบ เครื่องมือวิทยาศาสตร์ทุกชนิด

Viscometer/เครื่องวัดความหนืด



DV1



DV2T



DVPlus

VISCOSITY RANGE cP(mPa·s)		SPEEDS (18 available)	
MODEL	Min.	Max.	RPM Number of Increments
DV1MLV	1*	2M	.3-100 18
DV1MRV	100	13M	.3-100 18
DV1MHA	200	26M	.3-100 18
DV1MHB	800	104M	.3-100 18

VISCOSITY RANGE cP(mPa·s)		SPEEDS (200 Available)		
Model	Min	Max	RPM	Number of Increments
DV2TLV	1†	6M	.1-200	200
DV2TRV	100††	40M	.1-200	200
DV2THA	200††	80M	.1-200	200
DV2THB	800††	320M	.1-200	200

VISCOSITY RANGE cP(mPa·s)		SPEEDS (740 available)		
MODEL**	Min.	Max.	RPM	Number of Increments
DVPLLV	1*	6M	0.1-200	740
DVPLRV	100	40M	0.1-200	740
DVPLHA	200	80M	0.1-200	740
DVPLHB	800	320 M	0.1-200	740

✓ What's Included

- Instrument
- 6 spindles (RV/HA/HB) or 4 spindles (LV)
- Carrying Case
- Lab Stand (Model G)
- Spindle Guard Leg*

✓ What's Included

- Instrument
- 6 spindles (RV/HA/HB) or 4 spindles (LV)
- PG Flash Software
- Carrying Case
- Lab Stand (Model G)
- Convenience Pack
- Spindle Guard Leg*

✓ What's Included

- Instrument
- 6 spindles (RV/HA/HB) or 4 spindles (LV)
- Spindle Guard Leg
- Carrying Case
- Lab Stand (Model G)
- Power Supply



CTX Texture Analyzer/เครื่องวัดเนื้อสัมผัส

Compression and tension testing modes to assure product consistency. Best value in a stand-alone mode instrument for quality control.

All CTX Model Specifications

Speed	0.01-0.1 mm/s (in increments of 0.01mm/s)
Range	0.1 to 40mm/s (in increments of 0.3mm/s)*
Accuracy	±0.1% of set speed
Position Range	0-280 mm
Resolution	0.0005 mm
Accuracy	0.1 mm

*Maximum test speed for 100kg = 10mm/s and 50kg = 20mm/s



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Heated Circulating Baths/อ่างควบคุมอุณหภูมิ

มีขนาดถังตั้งแต่ 5 - 38 ลิตร

รุ่นสำหรับใช้งานทั่วไป : 0°C to 100°C และ 0°C to 120°C

รุ่นสำหรับใช้งานขั้นสูง : -15°C to 150°C และ -15°C to 200°C

เพิ่มการต่อพ่วงเข้ากับ **External Cooling Bath** สำหรับการทำงานในช่วงอุณหภูมิต่ำ

T100	TC120	TX150	TXF200
General purpose digital		Advanced digital	
Ambient +5 to 100°C	Ambient +5 to 120°C	Ambient +5 to 150°C	Ambient +5 to 200°C



T 100

TC 120

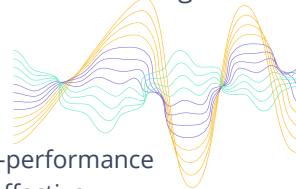
TX 150

TXF 200

>> Applications

- **Clinical, microbiology and pathology labs** : media tempering, thawing & incubating samples
- **University research** : temperature control of spectrophotometers, refractometers and jacketed vessels
- **Industrial labs** : temperature probe calibration, water analysis, QC testing product, petrochemical testing, material testing, milk sample testing, viscometry, cosmetics testing

Ultrasonic Baths/เครื่องล้างความถี่สูง



The XUB and XUBA series of reliable, high-performance ultrasonic baths offer fast, safe and cost-effective ultrasonic bath technology. Ideal for use in cleaning applications, preparation for sterilisation and degassing liquids.

• XUB range of digital ultrasonic baths

Advanced-level range with a choice of five baths

• XUBA range of analogue ultrasonic baths

Entry-level range with analogue control



Incubator/ตู้บ่มเชื้อ



Incubator IN and IF with SingleDISPLAY

Incubator INplus and IFplus

with TwinDISPLAY

Natural convection or forced air circulation

AtmoCONTROL software

Model sizes:

30/55/75/110/160 / 260 /450/750

+20 °C to +80 °C



CO₂ Incubator ICO with TwinDISPLAY

AtmoCONTROL software

Model sizes: 50 / 105 / 150 / 240

+18 °C to +50 °C

Humidity 40 to 97 % rh

CO₂ concentration 0 to 20 %

O₂ concentration 1 to 20 %



CO₂ -cooled incubator ICPeco

with TwinDISPLAY

AtmoCONTROL software

Model sizes: 110 / 260 / 450 / 750

-12 °C to +60 °C



Peltier-cooled incubator IPPeco

with SingleDISPLAY

Peltier-cooled incubator IPPecoplus

with TwinDISPLAY

with Advanced Peltier Technology

AtmoCONTROL software

Model sizes:

IPP: 30/55

IPPeco: 110 / 260 /410/750/1060

0 °C to +70 °C

Model sizes:

IPPeco:1400 / 2200

+15 °C to +60 °C



Heating and drying ovens / ตู้อบความร้อนและตู้อบแห้ง



Universal Oven UN and UF with SingleDISPLAY
Universal Oven UNplus and UFplus with TwinDISPLAY
Natural convection or forced air circulation
AtmoCONTROL software

Model sizes:

30 / 55 / 75 / 110 / 160 / 260 / 450 / 750 / 1060
+20 °C up to +300 °C



Vacuum oven VO with TwinDISPLAY
AtmoCONTROL software

Model sizes:

29/49/101
+20 °C to +200 °C
5 mbar to 1100 mbar
Accessories: lower pump chamber and
energy-efficient vacuum pump

Waterbath/อ่างน้ำควบคุมอุณหภูมิ

Waterbath WTB

Model sizes: 6, 11, 15, 24, 35, 50
Working temperature range: +5°C above the ambient temperature up to +100°C
Working temperature range with Peltier cooling unit CDP: +10 °C to 100 °C



Waterbath Basic WNB
Waterbath Excellent WNE
Waterbath Excellent with circulating pump WPE

Model sizes WNB, WNE:

7/ 10/ 14/22/29/ 45

Model size WPE:

45



+10 °C to +95 °C and boiling stage
(WPE: only with pump switched off)



Furnaces / เตาเผา



Muffle Furnaces up to 1100°C or 1200°C



Muffle Furnaces with Embedded Heating Elements in the Ceramic Muffle up to 1100°C



Economy Muffle Furnaces up to 1100°C



Ashing Furnaces up to 1100°C



Muffle Furnaces with Brick Insulation up to 1300°C



Ashing Furnaces with Integrated Exhaust Gas Cleaning up to 1100°C



Muffle Furnaces up to 1400°C



Muffle Furnace incl. Scale and Software for Determination of Combustion Loss



Glassware Washer / เครื่องล้างแก้ว



Wide capacity range to meet individual needs

- Single door and optional double door pass through
- Benchtop and floorstand glassware washer with/without drying function
- Over 40 standard cleaning racks, which can meet 90% of users' needs, and customized racks also available

Economic model without dryer

Tabletop without dryer



INOGW-80

80L, 1 layer



INOGW-120

120L, 1 layer



INOGW-200E

200L, 2 layer



INOGW-200

200L, 2 layer



INOGW-220

220L, 2 layer



INOGW-320

320L, 2 layer



INOGW-420

420L, 2 layer



Accessories



Cleaning Solution





Freeze dryer / เครื่องทำแห้งแบบแช่แข็ง



Typical Applications

Our freeze dryers are suitable for a wide range of applications

- Preserving the product characteristics of the original substances.
- Preserving the original form (animal preparations, archaeological objects or flowers).
- Conditioning the material (freeze-dried fruit).
- Chemical analyses (trace element analyses of foods, sludge or soil).

Laboratory Scale - Benchtop

Economic INOFD-10S; INOFD-10T; INOFD-10P; INOFD-10PT

Classic INOFD-10SU; INOFD-10TU; INOFD-10PU; INOFD-10PTU



Laboratory Scale - Console

Economic INOFD-12S; INOFD-12T; INOFD-12P; INOFD-12PT

Classic INOFD-12SU; INOFD-12TU; INOFD-12PU; INOFD-12PTU

Premium INOFD-12SUP; INOFD-12TUP; INOFD-12PUP; INOFD-12PTUP



Laboratory Scale - Console

Economic INOFD-18S; INOFD-18T; INOFD-18P; INOFD-18PT

Classic INOFD-18SU; INOFD-18TU; INOFD-18PU; INOFD-18PTU

Premium INOFD-18SUP; INOFD-18TUP; INOFD-18PUP; INOFD-18PTUP





Applied Scientific Instruments Co., Ltd.

บริษัท แอปพลิเคชัน ไซแอนทิฟิก อินสตรูमेंท์ส จำกัด

ศูนย์รวมเครื่องมือวัด เครื่องมือทดสอบ เครื่องมือวิทยาศาสตร์ทุกชนิด

Pilot Scale - Benchtop



INOFD-10TSS



INOFD-10TSP



IINOFD-10TST



INOFD-10TSPT

Pilot Scale - Floor Stand



INFOD-20S

INFOD-30S

INFOD-50S

INFOD-100S



INFOD-20T

INFOD-30T

INFOD-50T

INFOD-100T



INFOD-200S



INFOD-200T



INNOVA
The passion for science

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Tensiometer / เครื่องวัดแรงดึง

K20



✓ Force measurement

- Maximum load : 50 g
- Resolution : 100 µg
- Precision : 100 µg
- Measurement rate : 5 Hz
- Adjustment : automated, external weight
- Adjustment weight : CP0501: 20 g 1)

✓ Temperature measurement

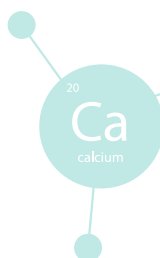
- Range of temperature measurement: -50 to 400 °C
- Resolution : 0.1 °C
- Precision: 0.1 °C
- Accuracy : 1/3 DIN B (± 0.1 °C at 0 °C to ± 0.8 °C at 400 °C)
- External sensor : 2 connectors (PT100)

DSA100E



Flame Photometer / เครื่องวิเคราะห์ธาตุด้วยเปลวไฟ

MODEL	FP8400	FP8500	FP8600	FP8700
				
Applications	Standard version for Laboratory Economic entry solution	Version for Process Remote control of multiple devices via centre process computer	Version with automated sample feed	Version with automated sample feed and dilution
Sample			✓	✓
Diluter				✓
Mixer				✓
Determining Concentration	Determining the concentrations of alkaline and alkaline earth elements in aqueous solutions for laboratory and process operations Na, K, Ca, Li - Propane or acetylene			

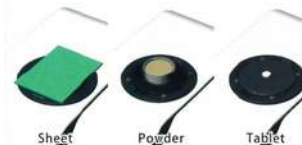


Color Meter / เครื่องวัดสี เครื่องวัดค่าความแตกต่างสี

ZE7700

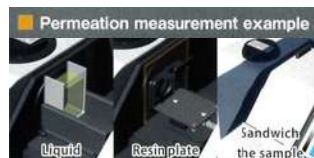


All-in-one type model equipped with the latest type of white LED, large color liquid crystal display and very convenient operation buttons



Related standards

JIS Z8722, JIS Z8781-4, JIS 8781-6, JIS Z8715, ASTM E308, ASTM E313, ASTM D1925 etc.



Melting Point / เครื่องหาจุดหลอมเหลว

MP420/MP430 Melting Point Apparatus

MP450/MP470/MP490 Auto Melting Point Apparatus



Visual and Automatic Determination
It includes a color display to observe the phase transition, is equipped with a video camera and a video replay function which allows reviewing the melting point determination. It also suit for color samples, which tradition automatic melting point apparatus not available.

Technical data					
	MP420	MP430	MP450	MP470	MP490
Capillary position capacity	4				
Capillary size	Inner 0.9-1.1mm				
Magnification of lens	8				
Display	Color 8-inch Touch Screen				
Temperature range	RT-300°C		RT-350°C		RT-400°C
Temperature accuracy	0.4 at 200°C; 0.7 at 300°C				
Temperature resolution	0.1°C				
Temperature repeatability	0.2°C				
Temperature gradients	0.1°C-20°C				
Video & Camera	Camera	Video & Camera			
Video reply	No	Yes			
Automatic find melting point	Manual		Automatic		
Room capacity	8GB	16GB	16GB	30GB	128GB
Graphic	0	0	100	200	500
Methods sotrage	1	30	30	80	200
Communication ports	USB×3, RS232, Wi-Fi, RJ45				
Printer	Thermal printer	Laser printer/ Thermal printer			
ID management	No	20	20	30	100
User classify	No	Yes	Yes	Yes	Yes
Data provenance	No	Yes	No	Yes	Yes
FDA 21 CFR part11	No	Yes	No	Yes	Yes



Planetary Centrifugal Mixer / เครื่องปั่นเหวี่ยง

- Features common to standard models
- Advanced model equipped with the individual revolution and rotation speed control system
- Carry out mixing of various materials of low to high viscosity in a short time (tens of seconds to several minutes)
- Optimum settings enables user to achieve continuous operation. (5 steps)
- Revolution and rotation can be set individually, so various types of materials can be handled.
- There are no propellers and it does not need to clean the machine. In addition, there is no loss of materials.



Planetary Centrifugal Mixer SK-300SII

300ml × 1 cup



Planetary Centrifugal Mixer SK-350TII

400 ml × 2 cups



Planetary Centrifugal Mixer SK-1100T

1100ml × 2 cups



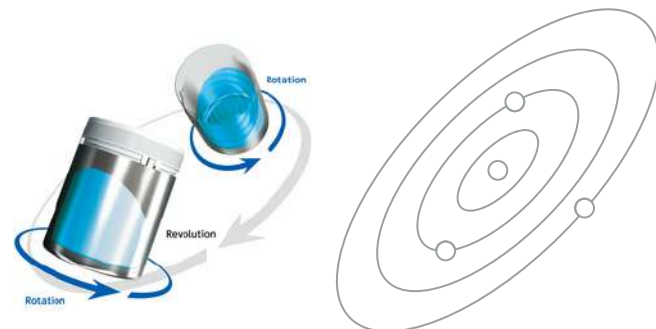
Planetary Centrifugal Mixer SK-2000T

2000ml × 2 cups (2kg)



Planetary Centrifugal Mixer SK-3000TII

2000ml × 2 cups (3kg)





Precision Balance / เครื่องชั่ง

- มีให้เลือกหลากหลายแบบ รุ่น หน่วยการวัด ตามความเหมาะสมในการใช้งาน
- มีความแม่นยำตั้งแต่ระดับ 0.000001 กรัม (Micro Balance) ถึงระดับกิโลกรัม (Industrial Balance)
- สามารถสอบเทียบได้ทั้งแบบ External Calibration และ Internal Calibration
- พังค์ชันการใช้งานทางสถิติที่อำนวยความสะดวกแก่ผู้ใช้งานอย่างครบครัน



Water Proof Scale



Table Top Scale



Weighing Balances



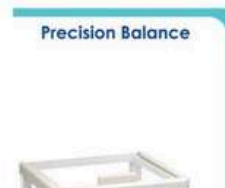
Professional Silver Scale



Table Top Scale



Counting Scale



Precision Balance



Basic Jewellery Balance



Precision Balance



Micro Balance



Moisture Analyzer / เครื่องวัดค่าความชื้นแบบอัตโนมัติ



- สามารถหาอุณหภูมิได้ตั้งแต่ 30-175 องศาเซลเซียส (หรือตัวเลือก 250 องศาเซลเซียส) ขึ้นอยู่กับสเปคเครื่องวิเคราะห์
- มีฟังก์ชันในการคำนวณค่าความชื้น (Moisture) ในตัวอย่างอัตโนมัติ
- สามารถบันทึกข้อมูลได้ถึง 1000 ข้อมูล
- ผู้ใช้งานสามารถแบ่งข้อมูลออกเป็น 40 วิธีหรือ 100 ชุด
- สามารถหาค่าเชิงสถิติหรือข้อมูลได้
- ได้รับรองมาตรฐาน ISO/ GPL

Model	MB 40	MB 50	MB 120	MB 200	MB 54
Max Capacity	40 g	50	120g	200g	50g
Precision of readout mass	1 mg	1mg	1mg	1mg	0.1mg
Precision of readout of moisture	0.001%	0.001%	0.001%	0.001%	0.0001%
Repeatability (Sample 2g) (sd)	0.1%	0.1%	0.1%	0.1%	0.05%
Repeatability (Sample 10g) (sd)	0.03%	0.03%	0.03%	0.03%	0.02%
Pan Size (mm / inch)	95 Ø				



Overhead Stirrers EUROSTAR digital/ เครื่องกวนผสมสาร



Technical Data

Stirring quantity max. per stirring position (H₂O) : 25 l

Motor rating input : 118 W

Motor rating output : 84 W

Motor principle : Brushless DC

Speed display : 7 segment LED

Speed range : 0/30 - 2000 rpm

Viscosity max. : 30000 mPas



Homogenizer/ เครื่องปั่นผสมความเร็วสูง

High-performance dispersing instrument for volumes from 1 – 2000 ml (H₂O) with digital speed display. It offers a wide speed range from 3000 – 25,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters. A broad choice of dispersing elements adds versatility. Applications ranges from homogenizing waste water samples, use in laboratory reactors, dispersion tasks under vacuum / pressure and sample preparation in medical research.



Overhead Stirrers / เครื่องกวน ผสมสาร



- With digital display
- Robust, slimline, ergonomic design
- Technical improvements on the trusted RW 20 series designs
- With constant power-drive
- Two speed ranges for universal use from 60 - 2.000 rpm
- Push-through agitator shafts (only when stationary)
- For stirring quantities of up to 20 l (H₂O)





Autoclave / เครื่องนึ่งฆ่าเชื้อโรค



Cassette Autoclave

Model SK-2000 SK-5000 SK-6000

The shortest sterilization cycle only needs 6-7 minutes.

Compared with the autoclave with a longer sterilization cycle, this quicker autoclave prolongs the life time of the medical instruments relatively,

- Sterilizing course: Automatic sterilization controlled by computer, easy to operate.
- Maximum temperature: up to 134 °C, suit for 4-6 minutes rapidly sterilizing.
- Safe protection of water lacking.



Table Top Steam Sterilizer



Portable Pressure Steam Sterilizer

- Fully stainless steel structure.
 - Hand wheel type of quick-open door structure.
 - Digital display of working status touch type key.
 - Automatically shut off with beep reminding after sterilization
- Electric heated.
- Easy to operate, safe and reliable.



Horizontal Steam Sterilizer

MAST-A is a fast, compact and versatile sterilizer which is researched and developed according to the latest requirements of medical institution and CSSD. It is designed and manufactured combines high capacity with cost-efficiency, while offering high operating reliability and easy maintenance

The design of chamber accords with state GB 1502011, GB8599-2008, CE and European EN285 standard



Vertical Pressure Steam Sterilizer

- Automatically controlled the sterilizing process, easy to operate..
- With drying function, suitable medical dressing drying.
- With over-temperature, over-pressure auto-protect device.



Floor Standing Steam Sterilizer



Spectrophotometers / เครื่องวัดค่าการดูดกลืนแสง



Introduction

- Smooth appearance design
- Ingenious color assortment
- White backlit LCD screen
- Oval buttons
- Easy parameter setting and microprocessor make the operation more convenient

Model : E-1000V, E-1000UV

E-1000 Series

Introduction

Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

Model : C-7000V ,C-7000UV



C-7000 Series



Introduction

Introduction

Steady, modern and elegant appearance design. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

Model : C-7100 ,C-7100S, C-7100A, C-7200, C-7200S, C-7200A

C-7100/7200 Series

Introduction

International advanced xenon light (Hamamatsu) source makes the instrument more stable and reliable. Three years warranty. Adopt the newest microcomputer technology and electronic control system. Optimized optical system and structure can both extend new functions and ensure the accuracy, stability and durability.

Model : X-8200, X-8200S, X-8200T, X-8200TS



Introduction

X-8200



T-9100/9200

Introduction

Excellent optical system, high level mechanical system, advanced circuit control system, rigorous production process, friendly and intuitive software interface, good technical specifications, stable and reliable performance can meet the analysis requirements from high level and professional customers.

Model : T-9100, T-9200, T-9200S, T-9200A

Fermentor / ถังหมัก ถังปฏิกรณ์ชีวภาพ



Lab-Scale Bench-Top Autoclavable Fermenter

- The BIOEXCEL M's 7-inch wide control panel screen, sensor port and communication port are located in the front and allows side by side placement: 180mm(W), 15kg, slim design.
- Variable vessels are available for bacteria, yeast or fungi, and with optional.
- Sensors controlling of pH, DO, temperature and foam with 4 peristaltic pumps.



Lab-Scale Bench-Top Autoclavable Multi Fermenter / Bioreactor

- Main Applications
- Process development, optimization, characterization
- Seed and small scale production
- Production of cell banks
- Process development and optimization
- Scale-up and scaledown studies
- Seed expansion
- Protein supply



Sterilizable-in-Place Fermenter/Bioreactor

- Intelligent 17" wide touch screen fermentation controller
- • Reliable operation due to the automatic controllers.
- • Merger of ATmega128 CPU and sensor board into one board enables efficient problem resolution.
- • High density fermentation DO stat, pH-stat, exponential feeding
- chemo-stat, etc

Continuous Centrifuge/เครื่องปั่นเหวี่ยงต่อเนื่องในแนวตั้ง



**Continuous Centrifuge
(Tubular Type)**



**Continuous Centrifuge
(Disk Type)**



**Continuous Centrifuge
(Decanter Type)**



Refractive Index Certified Reference Materials

Paragon Scientific produce Refractive Index Certified Reference Materials (CRMs) which are certified to ISO 17025 & ISO 17034 and are ideal for verification and calibration of temperature-controlled refractometers, with each CRM providing certified values for refractive index measurements at 20 °C, 25 °C and 30 °C.

Paragon Scientific's Refractive Index CRMs are certified in strict accordance to ISO 17025 & ISO 17034 and are available in single 10 mL volume tamper-evident glass bottles or can be ordered as a set of 5 per material (includes set of disposable pipettes). Both options allow users to take ample sample readings for their verification needs.

- Refractive Index Certified Reference Materials at 20 °C, 25 °C and 30 °C
- Certified in strict accordance to ISO 17025 and ISO 17034 under our UKAS accreditation
- Highest level of accreditation guarantee, providing the most credible certified data available worldwide
- All measurements are fully traceable to NIST and international protocols
- Low levels of uncertainty, ensuring maximum accuracy of data at hand and dependable results
- Available in single 10 mL volume tamper-evident glass bottles or as a multi-pack of 5 per material (includes set of disposable pipettes)
- 12 month shelf life
- Manufactured in the United Kingdom
- Available from stock for immediate dispatch



Sucrose Brix Standards



Sucrose Brix Standards

Paragon Scientific produces a range of Sucrose Standards for use in the calibration and verification of all types of refractometer e.g. handheld, Abbe and high accuracy digital instruments. Sucrose Standards are manufactured using traceable high purity materials following ICUMSA methods. These are the first standards available worldwide which carry a full certification according to ISO 17025 and ISO 17034 under UKAS accreditation.

Typically used within the food, beverage and pharmaceutical industries.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Primary refractive index standards traceable to national standards
- Manufactured in accordance with ICUMSA Methods
- Supplied in tamper evident packs with 6 weeks shelf life
- Manufactured in the United Kingdom
- Monthly delivery contracts available for economy, convenience and reliability



Certified pH Buffer Solutions



Certified pH Buffer Solutions

- Certified solutions for either 20 °C or 25 °C
 - Certified in strict accordance to ISO 17025 and ISO 17034 under our UKAS accreditation
 - Highest level of accreditation guarantee, providing the most credible certified data available worldwide
 - Certified pH Buffer Solutions are fully traceable to NIST and international protocols
 - Sold as colour-coded solutions for easy-identification purposes
 - Sold with anti-fungal preservatives / mould inhibitors
 - Supplied with certificate, Safety Data Sheet (SDS) and correlation table between pH and temperature
 - Supplied in 500 mL, tamper-evident containers.
- For other volumes, please contact us direct.
- 12 month shelf life per solution

Viscosity Standards



Paragon Scientific's ISO 17025 / ISO 17034 dual certified Viscosity Standards are for the calibration and verification of glass capillary viscometers and other viscosity measuring equipment where operating temperature is controlled precisely. We understand the importance of accurate calibration in your laboratory so we only source the highest quality raw materials for use in the manufacture of all our Viscosity Standards. Using only the best quality materials means that our standards are highly stable in all environments, you will not experience 'flocking' (associated with cool environments), discolouration or sedimentation. Unlike other Reference Material Producers, we fully test our products at every given data point, so you can be assured that the certified value given is the most accurate available.

Our Viscosity Standards are certified in strict accordance with the associated methodology under our dual UKAS accreditations for ISO 17025 and ISO 17034.



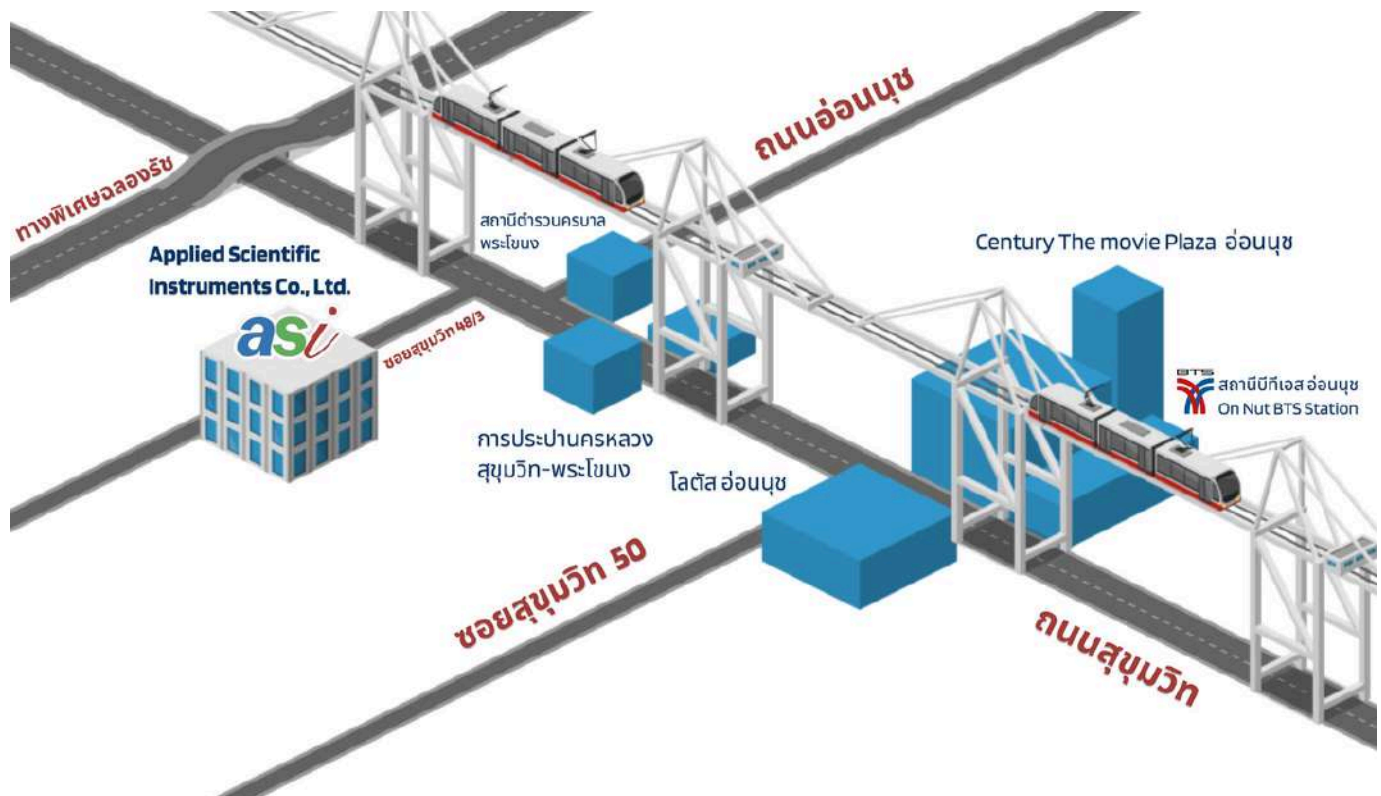
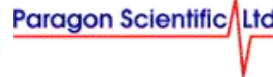


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