

Thermo Scientific iCAP PRO Series ICP-OES Consumables and Parts Catalog

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Inlet System

Torch, Spray Chamber, Nebulizers, Tubing, and Injectors

Table 1. Torch, spray chamber, nebulizers, injectors, and tubing

Parts	P/N	Description
Torch	842312051741	EMT Radial Torch
	BRE0012328	EMT Duo Torch iCAP PRO
	BRE0018982	Torch Holder
D Torch	842312052211	Injector Adapter for Radial & Duo D Torch
	842312052204	Base & Inner Tube for Radial & Duo D Torch
	BRE0018578	Ceramic Outer Tube for Duo D Torch iCAP PRO
	842312052206	Ceramic Outer Tube for Radial D Torch
	842312052210	Retaining Ring for Radial & Duo D Torch
	842312052208	Quartz Outer Tube for Radial D Torch
	842312052213	D Torch Sampling O Ring Kit
Spray chamber	842312051151	Radial Spray Chamber Adaptor
	842312051411	Cyclonic Spray Chamber
	842312051311	Organics Spray Chamber
	842312051451	Radial Spray Chamber HF
	842312051421	Ball Joint Clip
Nebulizer	842312051431	Concentric Nebulizer
	1161990	Backflush kit for glass concentric nebulizers
	842312051331	AeroSalt Nebulizer
	842312051321	V Groove Nebulizer
	842312051471	Mira Mist Nebulizer
	BRE0026021	4 mm Gas line adapter for Mira Mist
	BRE0026022	Sample line for Mira Mist (big peripump)
	BRE0026024	Gas line with 10/32 fittings Mira Mist
	842312051402	Nebulizer/Spray Chamber Connector Kit

Sample Introduction System

Table 1. Torch, spray chamber, nebulizers, injectors, and tubing, continued

Parts	P/N	Description
Injector	BRE0020178	Alumina injector 1.0 mm ID (HF resistant)
	842312051941	EMT Injector Tube 1.0
	842312051951	EMT 1.5mm Torch Centre Tube
	BRE0019895	EMT Centre Tube 2.0
	842312051961	EMT Centre Tube 2.0 Ceramic (HF resistant)
	BRE0019966	Center Tube Holder
Tubing	842312051511	Pump tubing aqueous sample (pack 6)
	842312051521	Pump tubing aqueous drain (pack 6)
	842312051621	Solvent Flex Pump Sample Tubing (Pk of 6)
	842312051631	Solvent Flex Pump Drain Tubing (Pk of 6)
	842312051531	Viton Pump tubing organic sample (pack 6)
	842312051541	Viton Pump tubing organic drain (pack 6)
	842312051551	Internal Standards Kit/Basic hydride system

Standard Sample Introduction Kits

Table 2. Standard Sample Introduction Kits iCAP PRO Series ICP-OES (Radial))

P/N	Description
BRE0019956	iCAP PRO Radial Aqueous Kit
BRE0019957	iCAP PRO Radial High Solids Kit
BRE0019958	iCAP PRO Radial Organics Kit
BRE0019959	iCAP PRO Radial Volatile Organics Kit
BRE0019960	iCAP PRO Radial HF Kit

Table 3. Standard Sample Introduction Systems iCAP PRO Series ICP-OES (Duo)

P/N	Description
BRE0019681	iCAP PRO Duo Aqueous Kit
BRE0019682	iCAP PRO Duo High Solids Kit
BRE0019683	iCAP PRO Duo Organics Kit
BRE0019684	iCAP PRO Duo Volatile Organics Kit
BRE0019685	iCAP PRO Duo HF Kit

Additional Kits for the Sample Introduction

Table 4. Additional kits Sample Introduction

P/N	Description
842312052201	Radial Ceramic D Torch Kit for iCAP PRO
BRE0024347	Duo Ceramic D Torch Kit for iCAP PRO
BRE0011649	Sheath Gas Adapter Kit
BRE0011651	Spare Sheath Gas Adapter Radial
BRE0011654	Spare Sheath Gas Adapter Connection Kit

Autosampler Racks

Table 5. Polypropylene autosampler racks

Picture	P/N	Description
	BRE0033168	21 Position, 25 - 30 mm
	BRE0033169	24 Position, 20 - 25 mm
	BRE0033170	40 Position, 16 - 20 mm
	BRE0033171	60 Position, 13 - 16 mm
	BRE0033173	90 Position, 10 - 13 mm
	BRE0033175	90 Position (Indexed), 10 - 13 mm

Argon Humidifier

Recommended Parts for the Argon Humidifier

Table 6. Recommended parts Argon Humidifier

P/N	Description
842312052090	Heated Argon Humidifier (accessory)
BRE0017503	Pergo - Complete Membrane Assembly
BRE0017284	Pergo - Membrane Assembly
BRE0017286	Pergo - Fittings Kit
BRE0017326	Pergo - Power Supply
BRE0017348	Pergo - Gas Fittings
BRE0017376	Pergo - PFA water Reservoir and endcap

IsoMist

Recommended Parts for the IsoMist

Table 7. Recommended parts IsoMist

P/N	Description
842312051661	Twister Spray Chamber for IsoMist Radial and iCAP PRO
842312051681	Unifit Right Angle Connector for IsoMist (3 ea)
BRE0024348	IsoMist Transfer Tube iCAP PRO (accessory)
BRE0024346	IsoMist XR Kit for iCAP PRO (accessory)

Vapor Systems and Accessories

Recommended Parts for the Vapor (Hydride) Systems

Table 8. Recommended parts vapor systems

P/N	Description
842312051551	Internal Standards Kit/Basic hydride system
842318050101	Enhanced Vapor System
842312052611	Replacement tubing for Enhanced Hydride Gen
842318050151	Consumable Parts for Hydride Kit
842312051611	Replacement Plumbing Kit Enhanced Vapour

Ultrasonic Nebulizer

Recommended Accessories for the Ultrasonic Nebulizer

Table 9. Recommended parts ultrasonic nebulizer

P/N	Description
842318051001	Cetac U-5000AT USN 220/240Volts
842318051002	Cetac U-5000AT Ultrasonic Nebuliser 110v
842318051003	Cetac U-5000AT USN 220/240V (Australia)

Sample Introduction Spares and Consumables

Recommended Spares and Consumables for the Sample Introduction

Table 10. Recommended parts sample introduction

P/N	Description
842312051741	EMT Radial Torch
BRE0012328	EMT Duo Torch iCAP PRO
842312051941	EMT Injector Tube 1.0
842312051951	EMT 1.5mm Torch Centre Tube
BRE0019895	EMT Centre Tube 2.0
842312051961	EMT Centre Tube 2.0 Ceramic (HF Resistant)
BRE0018982	Torch Holder
BRE0019966	Center Tube Holder
842312051151	Radial Spray Chamber Adaptor
842312051411	Cyclonic Spray Chamber
842312051311	Organics Spray Chamber
842312051451	Radial Spray Chamber HF
842312051421	Ball Joint Clip
842312051431	Concentric Nebuliser
1161990	Backflush kit for glass concentric nebulizers
842312051331	AeroSalt Nebuliser
842312051321	V Groove Nebuliser
842312051471	Mira Mist Nebuliser
842312051402	Nebulizer/Spray Chamber Connector Kit
842312051751	Sample Intro. Spares Kit
842312051401	Sampling O Ring Kit
842312052204	Base & Inner Tube for Radial & Duo D Torch
BRE0018578	Ceramic Outer Tube for Duo D Torch iCAP PRO
842312052206	Ceramic Outer Tube for Radial D Torch
842312052208	Quartz Outer Tube for Radial D Torch
842312052210	Retaining Ring for Radial & Duo D Torch
842312052211	Injector Adaptor for Radial & Duo D Torch
842312052213	D Torch Sampling O Ring Kit
BRE0019540	iCAP PRO Radial Cone
BRE0019550	iCAP PRO Axial Cone
842312052121	Standard Argon Gas Filter Kit

Options

ESI Autosamplers and Accessories

ESI Autosamplers and Accessories

Table 11. ESI Autosamplers and Accessories

Parts	P/N	Description
Autosampler	1238590	Autosampler SC-2 DX without FAST
	1238570	Autosampler SC-4 DX without FAST
	1329530	Autosampler SC-8 DX without FAST
	1238540	Autosampler SC-14 DX without FAST
	1329540	Autosampler SC-2 DX with FAST (tray does not fit into iCAP PRO kitchen area)
	842347004007	Autosampler SC-4 DX with FAST (tray does not fit into iCAP PRO kitchen area)
	1329560	Autosampler SC-8 DX with FAST (tray does not fit into iCAP PRO kitchen area)
	1329570	Autosampler SC-14 DX with FAST (tray does not fit into iCAP PRO kitchen area)
Accessory	BRE0009103	Enclosure for SC-2 DX
	BRE0008767	Enclosure for SC-4 DX

ESI Autosampler

ESI Autosampler Spares and Consumables

Table 12. ESI SC- Fast Autosampler (Consumables)

P/N	Description
842347004008	ESI Inter. Std. Kit for SC Autosampler
842347004009	PFA-ST Nebuliser, low pressure
842347004012	SC-FAST internal standard addition tee
842347004013	0.25mL Loop (1.6mm OD)
842347004014	0.50mL Loop (1.6mm OD)
842347004015	1.0mL Loop (1.6mm OD)
842347004016	2.0mL Loop (3.2mm OD)
842347004017	3.0mL Loop (3.2mm OD)
842347004018	4.0mL Loop (3.2mm OD)
842347004019	Sample probe (0.8mm ID)
842347004020	Sample probe (0.5mm ID)

ESI prepFAST

ESI prepFAST Autodilution System

Table 13. ESI prepFAST (Accessories)

P/N	Description
BRE0003998	2DX prepFAST for Thermo iCAP PRO / 7400 ICP-OE
BRE0003999	4DX prepFAST for Thermo iCAP PRO / 7400 ICP-OES
BRE0004000	8DX prepFAST for Thermo iCAP PRO / 7400 ICP-OES
BRE0004001	14DX prepFAST for Thermo iCAP PRO / 7400 ICP-OES

NOTICE

The tray does not fit into the iCAP PRO kitchen area.

ESI prepFAST Autodilution Spares

Table 14. ESI prepFAST (Consumables)

P/N	Description
BRE0003843	3x 2L bottles Carrier/Diluent IS Rinse
1301650	Sample Probe carbon fiber, 1.0mm ID
BRE0003846	Standards Rack 250 mL bottles (SC-4 DX)
BRE0003847	Standards Rack 125 mL bottles (SC-2 DX)
BRE0003848	Standards Rack 125 mL bottles SC-4/14 DX
BRE0003849	Standards Rack 125 mL bottles (SC-8 DX)
BRE0003850	Wide mouth HDPE bottle 250mL (12 each)
BRE0003851	Wide mouth HDPE bottle 125mL (12 each)
BRE0003854	24V power supply, US, Europe, UK cords
BRE0003855	RS-485 USB communications cable
BRE0003856	prepFAST spares kit

CETAC Autosamplers and Autodilution Systems

Table 15. CETAC Autosamplers and autodilution systems (Accessories)

Parts	P/N	Description
Autosampler	BRE0013184	Cetac XLR-860 Autosampler
	BRE0007611	CETAC ASX-280 Autosampler
	BRE0003260	CETAC Model ASX560 Autosampler
	1329920	CETAC ASXpress Plus Rapid Sample Introduction (requires ASX-260, ASX-520 or ASX-560)
	BRE0018963	ASX-7400 Stirring Autosampler
Autodilutor	BRE0008829	SDX HPLD Auto Dilutor
	BRE0008830	SDX HPLD Auto Dilutor Upgrade Kit

CETAC Autosampler Consumables

Table 16. CETAC autosamplers (Consumables)

Autosampler ^a	P/N	Description
	BRE0004296	CETAC 0.3mm ID Carbon Fiber Probe, 108", black band
	942315500161	CETAC 0.5mm ID Carbon Fiber Probe, 108", blue band
	942315500171	CETAC 0.8mm ID Carbon Fiber Probe, 108", red band
	BRE0004300	CETAC 0.9mm ID Carbon Fiber Probe, 70", yellow band
	BRE0004301	CETAC 1.0mm ID Carbon Fiber Probe, 108", 2xblue band
ASX-500 Series	BRE0017633	CETAC AS drip resistant probe 0.5 mm ID
	BRE0017634	CETAC AS drip resistant probe 0.8 mm ID
	BRE0017635	CETAC AS drip resistant probe 1.0 mm ID
	842347004039	ASXpress - Steel Filtered Probe for Oil
ASX-1400	842347004043	Stirrer for ASX-1400 (spare)
	942347004141	CETAC 7mL Poly Tubes, 13 x 82mm, Flat bottom w/ cap for Rack 90 (1000/kit)
	BRE0004309	CETAC 8mL Poly Tubes, 13 x 100mm Round bottom w/o cap for Rack 90 (1000/kit)
	942347004131	CETAC 14mL Poly Tubes, 16 x 100mm for Rack 60 (1000/kit)
	BRE0004311	CETAC 15mL Poly Tubes, 17 x 100mm for Rack 60 (1000/kit)
	942347004161	CETAC 20mL Poly Tubes, 21.5 x 100mm for Rack 40 (500/kit)

Table 16. CETAC autosamplers (Consumables), continued

Autosampler^a	P/N	Description
	942347004111	CETAC 30mL Poly Tubes 25 x 95mm for Rack 24 (500/kit)
ASX-560	BRE0004344	Rinse Station ASX-560

^a If nothing is shown the part number refers to ASX-260, 280, 520, 560, and XLR8.

CETAC ASX-560 Autosampler Consumables**Table 17. CETAC autosamplers (Consumables)**

Autosampler^a	P/N	Description
	942347003971	CETAC Drain Pump Tubing and ConnKit
	BRE0017632	Viton Drain Tubing ASX-520
	BRE0004331	CETAC 2-Channel Peri Pump Tubing-- 2x2mm ID, Tan, PharMed, Black Clip
	BRE0004332	CETAC 2-Channel Peri Pump Tubing-- 2x3mm ID, Tan, PharMed, Red Clip
	BRE0004333	CETAC 2-Channel Peri Pump Tubing-- 3x3mm ID, Tan, PharMed, White Clip
	BRE0004334	CETAC 2-Channel Peri Pump Tubing-- 2x2mm ID, Clear, Tygon, Black Clip
	BRE0004335	CETAC 2-Channel Peri Pump Tubing-- 2x3mm ID, Clear, Tygon, Red Clip
	BRE0004336	CETAC 2-Channel Peri Pump Tubing-- 3x3mm ID, Clear, Tygon, White Clip
	BRE0004337	CETAC 2-Channel Peri Pump Tubing-- 2x2mm ID, Yellow, Tygon Fuels, Black Clip
	BRE0004338	CETAC 2-Channel Peri Pump Tubing-- 2x3mm ID, Yellow, Tygon Fuels, Red Clip
	BRE0004339	CETAC 2-Channel Peri Pump Tubing-- 3x3mm ID, Yellow, Tygon Fuels, White Clip
	BRE0004340	CETAC 2-Channel Peri Pump Tubing-- 2x2mm ID, Black, Viton, Black Clip
	BRE0004341	CETAC 2-Channel Peri Pump Tubing-- 2x3mm ID, Black, Viton, Red Clip
	BRE0004342	CETAC 2-Channel Peri Pump Tubing-- 3x3mm ID, Black, Viton, White Clip
	BRE0004346	CETAC Drain Pump Tubing and Connection Kit -- Tygon, Aqueous
	BRE0004312	CETAC Drain Pump Tubing and Connection Kit -- Tygon Fuel and Lube, Oils
ASX-520	BRE0017632	Viton Drain Tubing ASX-520
	BRE0004313	CETAC Drain Pump Tubing and Connection Kit -- Superthane, Oils

^a If nothing is shown the part number refers to ASX-560.

CETAC ASX-560 Autosampler Spares Services**Table 18. CETAC autosamplers (Spares)**

Autosampler^a	P/N	Description
	BRE0004470	USB Cable (3 Meters)
	BRE0004471	RS-232 interface cable (3 Meters) Female/Female
ASX-260, 280, 520, 560, XLR8	BRE0004306	Thumbscrew and O-Ring Kit (probe mount kit)

^a If nothing is shown the part number refers to ASX-560.

CETAC SDX Autodilution System

CETA SDX Consumables

Table 19. CETAC SDX parts (Consumables)

P/N	Description
BRE0008864	2 Liter Bottle
BRE0008879	15 Liter Bottle
BRE0008880	1 Liter Bottle
BRE0008865	Sample Loop, 4.5 Ml
BRE0008882	SDX to ICP Tubing
BRE0008866	Sample Probe For Use With ASXpress Plus
BRE0008889	Probes For ICP-OES without ASXpress
BRE0008868	O-Ring Vortex Mixer and Vessel (2 pk)
BRE0008870	Vortex Mixing Vessel with Tubing
BRE0008871	Syringe Module Rinse Tubing Kit
BRE0008875	Peri Pump Tubing Cartridge 1-Channel
BRE0008869	10 mL Hamilton Syringe
BRE0008885	Vortexer Gaskets (Includes 2 gaskets)
BRE0004470	USB Cable (3 Meters)
BRE0004471	RS-232 interface cable (3 Meters) Female
BRE0004475	24-Volt Power Supply
BRE0008861	Power Cord - USA, Canada, Japan, Mexico
BRE0008862	Power Cord - Europe, Russia
BRE0008863	Power Cord - UK, Ireland
BRE0008867	Power Cord for AUS CHN NZL ARG
BRE0008883	Power Bridge Cable

CETAC ASX Integrated Enclosures

CETAC ASX Integrated Enclosure Parts

Table 20. CETAC ASX-560 enclosures (Consumables)

P/N	Description
BRE0020243	Ventilated Dust Cover for ASX-560
BRE0020244	Ventilated Dust Cover for ASX-280
BRE0020245	Ventilated Dust Cover for XLR-860
BRE0020246	CETAC Dust Cover Filter & Adapter
BRE0020247	CETAC Dust Cover ASX-560 Base
BRE0020248	CETAC Dust Cover ASX-280 Base
BRE0020249	CETAC Dust Cover XLR-860 Base
BRE0020250	CETAC Dust Cover Fan, Australia
BRE0020251	CETAC Dust Cover Fan, Europe
BRE0020252	CETAC Dust Cover Fan, North America

ASXpress

CETAC ASXpress Consumables

Table 21. CETAC ASXpress (Consumables)

P/N	Description
842312052641	Organics Sprint Valve Kit
842312052631	Aqueous Sprint Valve Kit
842347004033	ASXpress 1.0mm Carbon Fiber Sample Probe
842347004036	ASXpress 1/16in Barbed Tee Connector Kit
842347004039	ASXpress - Steel Filtered Probe for Oil

Kits for iCAP PRO Series

Radial

Table 21. CETAC ASXpress (Consumables), continued

P/N	Description
842347004047	ASXpress - Sample Loop 2mm ID/0.7ml
842347004048	ASXpress - Sample Loop 2mm ID/1.0ml
842347004049	ASXpress - Sample Loop 2mm ID/1.5ml
842347004050	ASXpress - Sample Loop 2mm ID/2.0ml
842347004051	ASXpress - Sample Loop 2mm ID/3.0ml
842347004052	ASXpress - Sample Loop 2mm ID/4.0ml
842347004053	ASXpress - Sample Loop 2mm ID/5.0ml
842347004054	ASXpress - Sample Loop 1mm ID/1.02ml
842347004055	ASXpress - Sample Loop 1mm ID/1.48ml
842347004056	ASXpress - Sample Loop 1mm ID/2.0ml
842347004057	ASXpress - Sample Loop 1mm ID/3.0ml
BRE0008922	V/P Tubing Kit Aqueous
BRE0008923	V/P Tubing Kit Oils
BRE0008924	Passive Bubbling Tee

Table 22. iCAP PRO Radial Aqueous Kit (P/N BRE0019956)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0019945	Torch - radial	1
BRE0019943	Centre tube 1.5 mm	1
BRE0019891	Spray chamber aqueous	1
842312051431	Nebulizer – glass concentric	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1
84231205151	Pump sample tube aqueous	1
84231205152	Pump drain tube aqueous	1

^a Used for the analysis of aqueous samples with low matrix load

Table 23. iCAP PRO High Solids Kit (P/N BRE0019957)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0019945	Torch - radial	1
BRE0019895	Centre tube 2.0 mm	1
BRE0019935	Organics spray chamber	1
842312051331	AeroSalt Nebulizer	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1

^a Used for the analysis of samples containing a high matrix load (3% total dissolved solids and above)

DUO

Table 24. iCAP PRO Radial Organics Kit (P/N BRE0019958)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0019945	Torch - radial	1
BRE0019938	Centre tube 1.0 mm	1
BRE0019935	Organics spray chamber	1
842312051321	V Groove Nebulizer	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1

^a Used for the analysis of organic solvents with mid to high boiling point

Table 25. iCAP PRO Radial HF Kit (P/N BRE0019960)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0019945	Torch - radial	1
BRE0019940	Centre tube 2.0 mm ceramics	1
BRE0019942	Spray chamber HF	1
842312051471	Mira Mist Nebulizer	1

^a Used for the analysis of samples containing hydrofluoric acid

Table 26. iCAP PRO Duo Aqueous Kit (P/N BRE0019681)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0012328	EMT Duo torch iCAP PRO	1
BRE0019895	Centre tube 2.0 mm	1
BRE0019891	Spray chamber aqueous	1
842312051431	Nebulizer – glass concentric	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1
84231205151	Pump sample tube aqueous	1
84231205152	Pump drain tube aqueous	1

^a Used for the analysis of aqueous samples with low matrix load

Table 27. iCAP PRO Duo Solids Kit (P/N BRE0019682)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0012328	EMT Duo torch iCAP PRO	1
BRE0019895	Centre tube 2.0 mm	1
BRE0019935	Organics spray chamber	1
842312051331	AeroSalt Nebulizer	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1

^a Used for the analysis of samples containing a high matrix load (3% total dissolved solids and above)

Table 28. iCAP PRO Duo Organics Kit (P/N BRE0019683)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0012328	EMT Duo torch iCAP PRO	1
BRE0019938	Centre tube 1.0 mm	1
BRE0019935	Organics spray chamber	1
842312051321	V Groove Nebulizer	1
BRE0019884	Radial adaptor 18/9 ball	1
1516222	Tubing set for iCAP	1
842312051421	Ball joint clip	1

^a Used for the analysis of organic solvents with mid to high boiling point

Table 29. iCAP PRO Duo Volatile Organics Kit (P/N BRE0019684)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0012328	EMT Duo torch iCAP PRO	1
BRE0019938	Centre tube 1.0 mm	1
824312051431	Nebulizer – glass concentric	1
1516222	Tubing set for iCAP	1

^a Used for the analysis of organic solvents with mid to high boiling point

Table 30. iCAP PRO Duo HF Kit (P/N BRE0019685)^a

Part number	Description	Quantity
BRE0018982	Torch holder	1
BRE0019966	Centre tube holder	1
BRE0012328	EMT Duo torch iCAP PRO	1
BRE0019940	Centre tube 2.0 mm ceramics	1
BRE0019942	Spray chamber HF	1
842312051471	Mira Mist Nebulizer	1

^a Used for the analysis of samples containing hydrofluoric acid

Trademarks

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