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**RE: Sole Source Supplier Applied Biosystems™ Instruments, Consumables and Software for Human Identification**

**Dear Valued Customer:**

Thank you for your interest in Thermo Fisher Scientific's Applied Biosystems™ (formerly known as Life Technologies) brand of instruments, software and consumables for Human Identification. Please accept this letter to document that Thermo Fisher Scientific is the sole manufacturer and distributor of the Applied Biosystems Genetic Analyzers, real-time PCR thermal cyclers, thermal cyclers, Ion Torrent Next Generation Sequencing, RapidHIT ID Systems and associated software as detailed in Table 1.

Genetic Analyzers, Ion instruments, real-time PCR thermal cyclers, RapidHIT ID and associated software contain a dedicated computer that is customized to operate the system and is compatible with our software. The computers attached to these systems are imaged specifically for Thermo Fisher Scientific and are not available from another source.

The Applied Biosystems Genetic Analyzers are the only commercially available 4, 8, and 24 capillary systems that have been validated according to SWGDAM guidelines to analyze DNA samples for the purpose of Human Identification. In addition, Thermo Fisher Scientific is the sole distributor of validated system consumables including capillaries, cartridges, chips, polymer, buffers, size standards and replacement parts as detailed in Table 2. Only Thermo Fisher Scientific factory trained, and certified engineers are authorized to service these instruments.

Further documentation describing the unique specifications of the Applied Biosystems brand of instruments can be found on the Thermo Fisher Scientific website, including user manuals.

In addition to Applied Biosystems instruments and software, Thermo Fisher Scientific is the sole manufacturer of all Applied Biosystems consumables, including kits for sample preparation, quantitation, and amplification as described in Table 3. Furthermore, Thermo Fisher Scientific is the sole authorized distributor and supplier within North America of such products.

This information should justify Thermo Fisher as "Sole Source" supplier for all Applied Biosystems instruments, software, consumables, and services that you need to perform DNA Analysis, for the purpose of Human Identification. Please note that the SKU's in the tables are not exhaustive but represent the key sole source products in our portfolio.

In addition, we are pleased to provide the Thermo Fisher Scientific Human Identification Professional Services (HPS) group. HPS provides validation, consultancy, and training services for Human Identification applications with expertise focused on the extensive line of the Applied Biosystems™ brand of instruments, software, and consumables. The HPS team combines extensive internal technical product knowledge with vast experience in forensic laboratory validations across a global team to customize end-to-end solutions for laboratories. Since 2007, the HPS team has completed hundreds of projects that include many combinations of the Applied Biosystems products listed below.

The HPS team is comprised of forensic scientists with broad and extensive validation experience with forensic DNA applications. Validation project work at customer laboratories is performed by Thermo Fisher Scientific Validation Application Specialists (VAS), who have all worked as forensic scientists and understand the workflow, standards, attention to detail, and unique needs of forensic DNA laboratories. External consultants with the relevant qualifications and training may also be involved in some areas of the validation project.

Additionally, the HPS team works with the Field Applications and Technical Support teams to offer comprehensive training packages through our HID Education Programs. Our training content is continually updated as our HPS, FAS and TS teams accumulate knowledge from across the globe. With internal technical knowledge of our products, expertise in validations, and problem-solving experience specific to our products, the HID team is well-positioned to instruct users on best practices for using, maintaining, and troubleshooting our products in the forensic workflow.

We appreciate your business and request that if you have any further questions that you contact me directly.

Regards,

A solid black rectangular box used to redact the signature of Nancy Fong.

Nancy Fong  
Director, Product Management  
Human Identification Business

Table 1: Instruments & Software	Table 2: System Consumables
A56532 – SeqStudio 8 Flex HID	4393718 – Conditioning Reagent, 3500 Series
A56534 – SeqStudio 24 Flex HID	4393927 – Anode Buffer Container 3500/Flex Series (ABC)
4406016 – 3500xL Genetic Analyzer for Human Identification	4408256 – Cathode Buffer Container 3500/Flex Series (CBC)
4406017 – 3500 Genetic Analyzer for Human Identification	4393710 – POP-4™ (960) Performance Optimized Polymer
A46228 – SeqStudio™ Genetic Analyzer for HID, laptop, training	4393715 – POP-4™ (384) Performance Optimized Polymer
A41432 – HID GeneStudio S5 Plus System	4408399 – GeneScan 600 LIZ dye Size Standard v2.0
A41431 – HID GeneStudio S5 Plus System	4322682 – GeneScan 500 LIZ dye Size Standard
A30070 – HID Ion Chef Instrument	4366589 – GeneScan 600 LIZ dye Size Standard
A34321 – QuantStudio 5 Real-Time PCR System, laptop	A41331 – SeqStudio Cartridge v2
A34322 – QuantStudio 5 Real-Time PCR System, desktop	A33401 – SeqStudio Cathode Buffer Container
4441763 – AutoMate Express Forensic DNA Extraction System	A27762 – Ion 520 Chip Kit
A40059 – SW,3500/XL DCS4.0	A27763 – Ion 530 Chip Kit - 4 Reactions
A40376 – 3500 DC4.0 WIN10 Upgrade	A27764 – Ion 530 Chip Kit
A43686 – 3500 DCS3.3 WIN10 Upgrade	A53084 – Primary Cartridge GlobalFiler™ Express 150 Kit
A48548 – HID Core Tower 23IN Monitr Sys Carton	
A38440 – GMID-X Software V1.6, full upgrade	A41810 – RapidHIT ID System
A38444 – GMID-X Software V1.6, full demo	A51271 – RapidHIT ID DNA Booking System
A39975 – GMID-X Software v1.6, full installation	A59183 - RapidLINK Software 2.0
A39976 – GMID-X Software v1.6, Client Installation	A51535 – RapidHIT ID DNA Booking Station V1.0
A38441 - GMID-X Software v1.6, Client Upgrade	A59805 – RapidLink Matching Suite 1.0
A71700 – GeneMapper ID-X Software v1.7, full installation	A41813 – RapidLink Software v1.0
A71701 – GeneMapper ID-X Software v1.7, client installation	A43973 – RapidLink Software Upgrade Kit v1.3
A01700 – GeneMapper ID-X Software v1.7, full upgrade	A41816 – RapidLink Staff Elimination Database App v1.0
A01701 – GeneMapper ID-X Software v1.7, client upgrade (1 lic)	A41817 – RapidLink Kinship App v1.0
A01705 – GeneMapper ID-X Software v1.7, client upgrade (5 lic)	A41818 – RapidLink Matching App v1.0
A01710 – GeneMapper ID-X Software v1.7, client upgrade (10 lic)	A41819 – RapidLink Familial App v1.0
A31152 – HID Real-Time PCR Analysis Software v1.3	A48503 – RapidLink Laptop System
A78901 – HID Real-Time PCR Analysis Software v1.4 Installation	A49069 – RHID Windows 10 License 2019
A78902 – HID Real-Time PCR Analysis Software v1.4 Upgrade	4349180 – FG, 7500 Spectral Dye Cal Kit
A35131 – Converge Server and Software	4351151 – 7500 Spectral Red Dye Cal Kit
A52127- HID VeritiPro™ 96-well Thermal Cycler	4482815 - FG, GlobalFiler Kit 1000RXN
4484075 – ProFlex™ 96-well PCR System	4410715 - Septa Cathode Buffer Cntr 3500 RUO
4484076 – ProFlex™ 2x 96-well System	A26343 - STD 96-Well 10-DYE CAL KIT EA
4484073 – ProFlex™ 3x 32-well PCR System	
4366604 – 7500 Real-Time PCR System for Human Identification	
4366605 - 7500 Real-Time PCR System for Human Identification with Dell Notebook D520	
A55395 – HID NIMBUS Presto	
A49104 – Capillary array 36-cm SeqStudio™ 8 Flex	
A49105 – Capillary array 36-cm SeqStudio™ 24 Flex	
4404683 – 3500 Genetic Analyzer 8-capillary Array, 36 cm	
4404685 – 3500 Genetic Analyzer 8-capillary Array, 50 cm	
4404687 – 3500 Genetic Analyzer 24-capillary Array, 36 cm	
4404689 – 3500 Genetic Analyzer 24-capillary Array, 50 cm	

**Table 3: Consumables**

4322288 - Identifiler PCR Amplification Kit (200 tests)	4482910 - Quantifiler Trio DNA Quantification kit
4427368 - Identifiler Plus PCR Amplification Kit (200tests)	4441352 - Prepfiler Express DNA Extraction kit
4467831 - Identifiler Direct PCR Amplification Kit (200 tests)	4441351 - Prepfiler Express DNA BTA Extraction kit
4425042 - DS-36 Matrix Standard (Dye Set J6)	4463353 - Prepfiler Automated DNA Extraction kit
4457889 - NGM SElect PCR Amplification kit (200 tests)	4311320 – Hi-Di Formamide Bottle 25mL
4472193 - NGM SElect Express PCR Amplification kit (200 tests)	4350584 – 96 Well RNase P Verif Plate No Pad
4474665 – GlobalFiler Express PCR Amplification kit (1,000 tests)	4461591 – 96 Well Std Calibration Plate w/ ABY Dye
4476135 - GlobalFiler PCR Amplification kit (200 tests)	4461593 – 96 Well Std Calibration Plate w/ JUN Dye
4359513 - Yfiler PCR Amplification kit (100 tests)	4461599 – 96 Well Cal Plate w/ MP Dye
4373872 - Minifiler PCR Amplification kit (100 tests)	400114RH - ACE GlobalFiler Express Evaluation 10-Sample Kit
4482730 - Yfiler Plus PCR Amplification kit (500 tests)	A41831 - ACE GlobalFiler Express 50-Sample Kit
A31832 - NGM Detect PCR Amplification kit (200 tests)	A42469 - ACE GlobalFiler Express Positive Control Cartridge
A32014 - Verifiler Express PCR Amplification kit (200 tests)	A42470 - ACE GlobalFiler Express Negative Control Cartridge
A32970 - Yfiler Platinum PCR Amplification kit (200tests)	400096RH - GlobalFiler Express Control (Ladder) 5-Cartridge Kit
A35495 - Verifiler Plus PCR Amplification kit (200tests)	A43941 - RapidINTEL Evaluation Kit
A25642 - Precision ID Ancestry Panel	A43942 - RapidINTEL 50-Sample Kit
A25643 - Precision ID Identity Panel	P044396 – RapidINTEL Positive Control Cartridge
A26435 - Precision ID Library Kit	P044400 – RapidINTEL Negative Control Cartridge
A26808 - Precision ID Identity and Library kit bundle	A55598 - RapidINTEL Plus Evaluation Kit
A30938 - Precision ID mtDNA Whole Genome Panel(96 reactions)	A54338 - RapidINTEL Plus 50-Sample Kit
A31443 - Precision ID mtDNA Control Region Panel(96 reactions)	A42471 - RapidHIT ID Utility Cartridge
A33114 - Precision ID GlobalFiler NGS STR Panel v2	A54344 - RapidINTEL Plus Ladder Cartridge Kit
A33208 - Ion S5 Precision ID Chef & Sequencing Kit	A54342 - RapidINTEL Plus Positive Control Cartridge
A33212 - Precision ID DL8 kit	A54343 - RapidINTEL Plus Negative Control Cartridge
A33586 - Precision ID IonCode Barcode Adapters	A46069 - ACE GlobalFiler Express 50-Sample Kit with Swab
A35850 - Ion S5 Precision ID Chef & Sequencing kit	4484678 – Yfiler Plus Kit (100X)
4468802 – Ion Library TaqMan Quantitation Kit	4311971 - MicroAmp™ Optical Adhesive Film
4387746 - Quantifiler Duo DNA Quantification kit	