

Texas Comptroller of Public Accounts

Statewide Procurement Division



IFB No. 304T-27-175A1.1

Proprietary Chemical Laboratory Equipment and Supplies

Attachment F

Requirements and Specifications

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Line 1: Anode Buffer Container (ABC) for 3500/SeqStudio™ Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4393927

1. Supports all electrophoresis applications on the Applied Biosystems 3500 and SeqStudio Flex series genetic analyzers
2. Disposable Container with a radio frequency identification (RFID) tag incorporated to the label
3. Should be stored at 2 degrees – 8 degrees C°
4. Shipping Condition: Room or ambient temperatures acceptable
5. Verified use on the instrument for up to 14 days
6. Expiration Date/On-Instrumented supported limits:
 - a. 8-Capillary: 14 days, 240 injections, or expiration date (whichever is first)
 - b. 24-Capillary: 14 days, 100 injections, or expiration date (whichever is first)
7. Order Increment Quantity: 4 containers each
8. Unit of Measure: Each

Line 2: Cathode Buffer Container (CBC) for 3500/SeqStudio

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4408256

1. Supports all electrophoresis applications on the Applied Biosystems 3500 and SeqStudio Flex series genetic analyzers
2. Has two separate compartments:
 - a. Left side provides the cathode buffer for electrophoresis
 - b. Right side: provides for a capillary wash and spent polymer waste ejection functionality between injections
3. Disposable Container with a radio frequency identification (RFID) tag incorporated to the label
4. Should be stored at 2 degrees – 8 degrees C°
5. Shipping Condition: Room or ambient temperatures acceptable
6. Verified use on the instrument for up to 14 days
7. Expiration Date/On-Instrumented supported limits:
 - a. 8-Capillary: 14 days, 240 injections, or expiration date (whichever is first)
 - b. 24-Capillary: 14 days, 100 injections, or expiration date (whichever is first)
8. Requires: Septa Cathode Buffer Container 3500/Flex Series
9. Order Increment Quantity: 4 Containers each
10. Unit of Measure: Each

Line 3: Septa Cathode Buffer Container, for 3500/SeqStudio™ Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4410715

1. Used for both compartments of the Cathode Buffer Container
2. Used with 3500 and SeqStudio Flex series genetic analyzers
3. Shipping Condition: Room or ambient temperatures acceptable
4. Order Increment Quantity: 10 Containers each
5. Unit of Measure: Each

Line 4: Conditioning Reagent, for 3500/SeqStudio Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4393718

1. Compatible with 3500 and SeqStudio Flex Series Genetic Analyzers.
2. Used for priming the polymer pump, and washing the polymer pump, between polymer type changes and during instrument shut down
3. One time use pouch with a radio frequency identification (RFID) tag incorporated to the label
4. Should be stored at 2 degrees – 8 degrees C°
5. Shipping Condition: Wet ice
6. After it is installed on the instrument, the pouch is good for one-time use
7. Unit of Measure: Each

Line 5: Pop-4 Polymer for 3500 Series

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4393710

1. Optimized for HID/forensic applications
2. Polymers dynamically coat the capillary wall to control electro-osmotic flow
3. Formulated to separate DNA fragments of a known size range at a desired resolution
4. Should be stored at 2 degrees – 8 degrees C°
5. Shipping Condition: Wet ice
6. Expiration Date/On-Instrumented supported limits:
 - a. 8-Capillary: 14 days, 960 samples, 120 injections, or expiration date (whichever is first)
 - b. 24-Capillary: 14 days, 960 samples, 50 injections, or expiration date (whichever is first)
7. Requires: Conditioning Reagent Kit 3500/Flex Series
8. Order Increment Quantity: 960 samples each
9. Unit of Measure: Each

Line 6: HI-DI Formamide Bottle 25mL

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4311320

1. Highly deionized formamide used to resuspend samples before electrokinetic injection on capillary electrophoresis systems
2. Shipping Condition: Dry ice
3. 25 mL bottles
4. Unit of Measure: Each

Line 7: Septa for 96-Well Plates, for 3500/SeqStudio™ Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4412614

1. Used for Applied Biosystems 3500 and SeqStudio Flex series genetic analyzers
2. Shipping Condition: Room or ambient temperatures acceptable
3. Order Increment Quantity: 20 Septa plates each
4. Unit of Measure: Each

Line 8: GeneScan™ 600 LIZ™ Dye Size Standard v2.0

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4408399

1. Fifth dye-labeled high density size standard for the reproducible sizing of fragment analysis data
2. Required for normalization on the 3500 Series Genetic Analyzers
3. Can be used as a traditional size standard on all the Applied Biosystems capillary electrophoresis systems
4. Standard fragment sizes:
 - a. Minimum: 20 bp
 - b. Maximum: 600 bp
5. Contains: 36 LIZ dye-labeled, single-stranded DNA fragments
6. Should be stored at 2 degrees – 8 degrees C°
7. Shipping Condition: Wet ice
8. Order Increment Quantity: (2) 200 µL or ~800 reactions each
9. Unit of Measure: Each

Line 9: 3500 Genetic Analyzer 8-Capillary Array, 36 cm

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4404682

1. Preassembled set of 8 capillaries per array, with a built-in frame for easy installation
2. Applications: HID/Forensic Applications
3. Should be stored at room temperature, with the loading-end of the capillary array in distilled water to prevent the polymer from drying in the capillaries
4. Shipping Condition: Room or ambient temperatures acceptable
5. Expiration Date/On-Instrumented supported limits: 160 injections, or expiration date (whichever is first)
6. Quantity: 1 Array
7. Unit of Measure: Each

Line 10: 3500xL Genetic Analyzer 24-Capillary Array, 36 cm

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4404687

1. Preassembled set of 24 capillaries per array, with a built-in frame for easy installation
2. Applications: HID/Forensic Applications
3. Should be stored at room temperature, with the loading-end of the capillary array in distilled water to prevent the polymer from drying in the capillaries
4. Shipping Condition: Room or ambient temperatures acceptable
5. Expiration Date/On-Instrumented supported limits: 160 injections, or expiration date (whichever is first)
6. Quantity: 1 Array
7. Unit of Measure: Each

Line 11: DS-36 Matrix Standard (Dye Set J6)

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4425042

1. Used to perform the spectral calibration required to analyze 6-FAM, VIC, NED, SID, TAZ, and LIZ dye-labeled DNA fragments on the Applied Biosystems SeqStudio, 3130, 3500, and 3730 series systems
2. Uses multi-component to automatically analyze the six differently colored fluorescent dye-labeled samples in a single capillary
3. Shipping Condition: Wet ice
4. Order Increment Quantity: 8 runs each
5. Unit of Measure: Each

Line 12: Prep-N-Go Buffer, for Buccal Swabs

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4471406

1. Enables high-quality direct PCR amplification of single source samples collected
2. Amplified using the AmpFLSTR Identifier Direct PCR Amplification Kit or other Applied Biosystems STR direct chemistries
3. Expands direct PCR amplifications capabilities to laboratories that use a wide variety of substrates, and are readily adaptable to both manual and automated workflows
4. No purification, extraction or quantification required
5. Shipping Condition: Room or ambient temperatures acceptable
6. Order Increment Quantity: 200 reactions at 400 µL/reaction each
7. Unit of Measure: Each

Line 13: Quantifiler™ Trio DNA Quantification Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 4482910

1. Enables forensic laboratories to simultaneously obtain a quantitative and qualitative assessment of total human and human male DNA in a single, highly sensitive real-time PCR reaction
2. Guides selection of the optimal short tandem repeat (STR) analysis chemistry (autosomal, Y-STR, or miniSTR) and streamlines the workflow while increasing downstream analysis success rates
3. Includes enhanced quantity and quality indicators that help deliver accurate, sensitive, and specific results that work together with the HID Real Time PCR Analysis Software v1.2 to enable informative and integrated workflow decisions
4. Quantifiler Trio kit and the HID v1.2 software are designed for use with the Applied Biosystems 7500 Real-Time PCR System
5. Shipping Condition: Dry ice
6. Order Increment Quantity: 400 reactions each
7. Unit of Measure: Each

Line 14: RapidHIT™ ID ACE GlobalFiler™ Express 50-Sample Kit with Swab

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A46069

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID System
3. Included with each cartridge:
 - a. Swabs
 - b. Tamper-proof tape
 - c. Barcodes
4. Shipping Condition: Wet ice

5. Order Increment Quantity: 50 Cartridges each
6. Unit of Measure: Each

Line 15: RapidINTEL™ Plus 50 Sample Cartridge Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A54338

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID
3. Sample Type: Crime scene samples
4. Shelf Life: 12 Months
5. Contains:
 - a. 50 sample cartridges
 - b. 2 positive control cartridges
 - c. 2 negative control cartridges
6. Shipping Condition: Wet ice
7. Order Increment Quantity: 50 Samples each
8. Unit of Measure: Each

Line 16: RapidHIT™ ID Primary Cartridge GlobalFiler™ Express 150 Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A53084

1. For Use With (Application): DNA Fragment Analysis
2. For Use With (Equipment): RapidHIT ID System
3. Product Line: RapidHIT
4. Product Type: Primary cartridge
5. Contains:
 - a. 1 Primary Cartridge Housing (room temperature)
 - b. 2 Utility Cartridges (room temperature)
 - c. 1 Gel Cartridge (refrigerated)
 - d. 1 ACE GlobalFiler Express Control Cartridge (refrigerated)
 - e. 1 Positive Control RapidHIT ID ACE GlobalFiler Express Sample Cartridge (refrigerated)
6. Shipping Condition: Wet ice
7. Order Increment Quantity: 150 runs each
8. Unit of Measure: Each

Line 17: RapidHIT™ ID Utility Cartridge

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A42471

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID System

3. Quantity: 1 cartridge
4. Unit of Measure: Each

Line 18: RapidHIT™ ID GlobalFiler™ Express Control (Ladder) 5-Cartridge Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 400096RH

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID System
3. Shipping Condition: Wet ice
4. Order Increment Quantity: 5 cartridges each
5. Unit of Measure: Each

Line 19: RapidHIT™ ID ACE GlobalFiler™ Express Positive Control Cartridge

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A42469

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID System
3. Shipping Condition: Wet ice
4. Quantity: 1 cartridge
5. Unit of Measure: Each

Line 20: RapidHIT™ ID ACE GlobalFiler™ Express Negative Control Cartridge

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A42470

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID System
3. Shipping Condition: Wet ice
4. Quantity: 1 cartridge
5. Unit of Measure: Each

Line 21: RapidINTEL™ Plus Ladder Cartridge Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A54344

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID
3. Shelf Life: 12 Months
4. Shipping Condition: Wet ice
5. Order Increment Quantity: 1 Kit (5 Cartridges) each
6. Unit of Measure: Each

Line 22: RapidHIT™ ID Booking Station ACE GlobalFiler™ Express Complete 150-Sample Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A57075

1. For Use With (Application): Booking station arrestee testing
2. For Use With (Equipment): RapidHIT ID
3. Sample Type: Buccal Swabs
4. Shelf Life: 12 Months
5. Contains 3 ACE GlobalFiler Express 50-Sample Kit w/ Swab (refrigerated), Primary Cartridge Housing (room temperature), 2 Utility Cartridges (room temperature), Gel Cartridge (refrigerated) and GlobalFiler Express Control (Ladder) Cartridge (refrigerated).
6. Shipping Condition: Wet ice
7. Order Increment Quantity: 1Kit (150 samples) each
8. Unit of Measure: Each

Line 23: PowerPlex Y23 System

Required Manufacturer: Promega SKU# DC2320

1. Storage Temp: -35°C to -10°C
2. Box Includes 2800M Control DNA, Water, Amplification Grade, PowerPlex Y23 Allelic Ladder Mix, WEN Internal Lane Standard 500 Y23, PowerPlex Y23 10X Primer Pair Mix, PowerPlex Y23 5X Master Mix.
3. Shipping Condition: Dry ice
4. Order Increment Quantity: 200 reactions each
5. Unit of Measure: Each

Line 24: DNA IQ Spin Baskets

Required Manufacturer: Promega SKU# V1221

1. Product Type: Single-use plastic spin basket
2. Storage Temp: 15°C to 30°C
3. Material: Laboratory-grade plastic
4. Shipping Condition: Room or ambient temperatures acceptable
5. Order Increment Quantity: 1,000 spin baskets each
6. Unit of Measure: Each

Line 25: DNA Size Standard 24Plex (BTO)

Required Manufacturer: Qiagen SKU# 386037

1. Labeling: Contains BTO dye
2. Application: Supports multiplex STR panels in the Investigator 24plex QS Kit
3. Shipping Condition: Dry ice
4. Order Increment Quantity: 800 reactions
5. Unit of Measure: Each

Line 26: RapidINTEL™ Plus Positive Control Cartridge

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A54342

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID
3. Shelf Life: 12 Months
4. Quantity: 1 Cartridge
5. Unit of Measure: Each

Line 27: RapidINTEL™ Plus Negative Control Cartridge

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# A54343

1. For Use With (Application): Human Identification
2. For Use With (Equipment): RapidHIT™ ID
3. Shelf Life: 12 Months
4. Quantity: 1 cartridge
5. Unit of Measure: Each

Line 28: Cannabinoids (THC) Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 205-4800

1. Sample Matrix to be Tested: Blood and Urine
2. Assay: Cannabinoids
3. Target Analyte: Carboxy-THC
4. Low (mg/L): 0.005 (Blood) // 0.005 (Urine)
5. Cut-off (mg/L): 0.01 (Blood) // 0.01 (Urine)
6. High (mg/L): 0.02 (Blood) // 0.02 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 29: Opiates Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 207-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Opiates
3. Target Analyte: Morphine
4. Low (mg/L): 0.005 (Blood) // 0.005 (Urine)
5. Cut-off (mg/L): 0.01 (Blood) // 0.01 (Urine)
6. High (mg/L): 0.02 (Blood) // 0.02 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 30: PCP Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 208-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Phencyclidine
3. Target Analyte: Phencyclidine
4. Low (mg/L): 0.0025 (Blood) // 0.005 (Urine)
5. Cut-off (mg/L): 0.005 (Blood) // 0.01 (Urine)
6. High (mg/L): 0.01 (Blood) // 0.02 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 31: Amphetamine Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 209-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Amphetamine
3. Target Analyte: Amphetamine
4. Low (mg/L): 0.01 (Blood) // 0.0125 (Urine)
5. Cut-off (mg/L): 0.02 (Blood) // 0.025 (Urine)
6. High (mg/L): 0.04 (Blood) // 0.05 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests
9. Unit of Measure: Each

Line 32: Barbiturates Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 210-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Barbiturates
3. Target Analyte: Butalbital
4. Low (mg/L): 0.30 (Blood) // 0.30 (Urine)
5. Cut-off (mg/L): 0.60 (Blood) // 0.60 (Urine)
6. High (mg/L): 1.2 (Blood) // 1.2 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 33: Methamphetamine Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 211-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Methamphetamine
3. Target Analyte: Methamphetamine
4. Low (mg/L): 0.01 (Blood) // 0.0125 (Urine)
5. Cut-off (mg/L): 0.02 (Blood) // 0.025 (Urine)
6. High (mg/L): 0.04 (Blood) // 0.05 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 34: Cocaine/BZE (Benzoylecgonine) Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 212-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Cocaine/Benzoylecgonine
3. Target Analyte: Benzoylecgonine
4. Low (mg/L): 0.025 (Blood) // 0.025 (Urine)
5. Cut-off (mg/L): 0.05 (Blood) // 0.05 (Urine)
6. High (mg/L): 0.10 (Blood) // 0.10 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 35: Benzodiazepines Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 214-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Benzodiazepine
3. Target Analyte: Oxazepam
4. Low (mg/L): 0.005 (Blood) // 0.005 (Urine)
5. Cut-off (mg/L): 0.01 (Blood) // 0.01 (Urine)
6. High (mg/L): 0.02 (Blood) // 0.02 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 36: Oxycodone/Oxymorphone Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 221B-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Oxycodone
3. Target Analyte: Oxycodone
4. Low (mg/L): 0.005 (Blood) // 0.05 (Urine)
5. Cut-off (mg/L): 0.01 (Blood) // 0.10 (Urine)
6. High (mg/L): 0.02 (Blood) // 0.20 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 37: Carisoprodol Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 231-4800

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Carisoprodol
3. Target Analyte: Carisoprodol
4. Low (mg/L): 1.0 (Blood) // 0.05 (Urine)
5. Cut-off (mg/L): 2.0 (Blood) // 0.10 (Urine)
6. High (mg/L): 4.0 (Blood) // 0.20 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 4800 tests each
9. Unit of Measure: Each

Line 38: Zolpidem Direct ELISA Kit

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# 233-0480

1. Sample Matrix to be tested: Blood and Urine
2. Assay: Zolpidem
3. Target Analyte: Zolpidem
4. Low (mg/L): 0.005 (Blood) // 0.005 (Urine)
5. Cut-off (mg/L): 0.01 (Blood) // 0.01 (Urine)
6. High (mg/L): 0.02 (Blood) // 0.02 (Urine)
7. Shipping Condition: Wet ice
8. Order Increment Quantity: 480 tests each
9. Unit of Measure: Each

Line 39: Phosphate-Buffered Saline (PBS)

Required Manufacturer: Immunalysis Corporation (Abbott) SKU# PBS-1000

1. Product Type: Phosphate-buffered saline
2. pH: ~7.2-7.5
3. Osmolarity: Isotonic
4. Shipping Condition: Wet ice
5. Volume: 1 Liter (1000mL)
6. Unit of Measure: Each

Line 40: ExoSAP-IT™ PCR Product Cleanup Reagent

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU# 78202.4X.1.ML

1. Removes excess primers and unincorporated nucleotides from a PCR reaction
2. 2,000 reactions
3. 1 mL
4. Shipping Condition: Dry ice
5. Order Increment Quantity: 4 tubes each
6. Unit of Measure: Each

Line 41: BigDye™ Terminator v3.1 Cycle Sequencing Kit

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4337456

1. Sequencing Buffer
2. Used for de novo sequencing, resequencing, and finishing with PCR product, plasmid, fosmid, and BAC (Bacterial Artificial Chromosomes) templates
3. Shipping Condition: Dry ice
4. Order Increment Quantity: 1,000 reactions each
5. Unit of Measure: Each

Line 42: DS-33 Matrix Standard Kit (Dye Set G5)

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4345833

1. Used to generate the "multicomponent matrix" required when analyzing 6-FAM, VIC, NED, PET, and LIZ-labeled DNA fragments on the Applied Biosystems SeqStudio, 3500, and 3730 series Systems.
2. Shipping Condition: Wet ice
3. Order Increment Quantity: 8 runs each
4. Unit of Measure: Each

Line 43: GeneScan™ 500 LIZ™ Dye Size Standard

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4322682

1. Designed for sizing DNA fragments in the 35-500 nucleotides range
2. Provides 16 single-stranded labeled fragments of: 35, 50, 75, 100, 139, 150, 160, 200, 250, 300, 340, 350, 400, 450, 490 and 500 nucleotides.
 - a. The sizing curve generated from these fragments make the GeneScan™ 500 LIZ™.
3. Shipping Condition: Wet ice
4. Order Increment Quantity: 800 reactions each
5. Unit of Measure: Each

Line 44: POP-7™ Polymer, for 3500/SeqStudio™ Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4393714

1. Used for short- to long-read sequencing and fragment analysis.
2. Includes radio frequency identification (RFID) label
3. Shipping Condition: Wet ice
4. Order Increment Quantity: 960 samples each
5. Unit of Measure: Each

Line 45: Sequencing Standard, BigDye™ Terminator V3.1, for 3500/Seqstudio™ Flex

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU #4404312

1. Contains enough DNA of a known 1200 base pair sequence prepared with BigDye Terminator v3.1 to perform one spectral calibration/performance check and/or one control sequencing run on Applied Biosystems 3500 and SeqStudio Flex series genetic analyzers.
2. Shipping Condition: Dry Ice
3. Order Increment Quantity: 4 tubes each
4. Unit of Measure: Each

Line 46: TaqMan™ Universal PCR Master Mix

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4318157

1. Reagent solution for multiple 5' nuclease DNA applications.
2. 5 mL per unit
3. Shipping Condition: Wet ice
4. Order Increment Quantity: 10 units each
5. Unit of Measure: Each

Line 47: TaqMan™ Environmental Master Mix 2.0

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4398044

1. Used for real-time PCR-based pathogen detection in the presence of high levels of inhibitors.
2. Shipping Condition: Dry ice
3. Order Increment Quantity: 800 reactions each
4. Unit of Measure: Each

Line 48: 3500 Genetic Analyzer 8-Capillary Array, 50 cm

Required Manufacturer: Life Technologies Corp. (Thermo Fisher Scientific) SKU#4404685

1. Used for protein quality analysis, fragment analysis, and sequencing
2. Shipping Condition: Room or ambient temperatures acceptable
3. Quantity: 1 Array
4. Unit of Measure: Each

Line 49: ANDE A-Chip

Required Manufacturer: ANDE Corporation SKU#A0210001057

1. Processes up to 5 samples simultaneously using 27 loci
2. Quantity: 1 ANDE A-Chip
3. Unit of Measure: Each

Line 50: Rapid DNA Smart Swab Single Pack

Required Manufacturer: ANDE Corporation SKU#A0310001121

1. Single Pack with RFID, barcode labels, protective tube, and integrated desiccants
2. Quantity: 1 Single Pack
3. Order Increment Quantity: 50 Single Packs
4. Unit of Measure: Each