USO INTERNO

Taq Polymerase KOD Polymerase JumpStart™ Taq Polymerase KOD HotStart Polymerase JumpStart™ REDTaq® ™ Deoxynucleotide Set Custom DNA Oligos Whole Genome Amplification Enhanced Avian HS RT-PCR One Step RT-PCR Master Mix

Equipment & Accessories

Acrylamide and Agarose

Running Buffers

Markers & Ladders

Dyes & Stains

Extract-N-Amp™

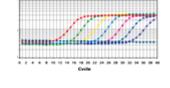
SYBR® Green based qPCR
Probe-based qPCR
(LuminoCt or KiCqStart)

SYBR Green RT-qPCR

RT-qPCR ReadyMix
(JumpStart or KicqStart)

Quantitative PCR

Genotyping & electrophoresis



RT-PCR

& Amplification

& A

DNA Purification

SpinPrep™ Kits



■ GenElute™ Mammalian Genomic

GenElute™ Blood/Plant /Bacterial

GenElute™ FFPE DNA Purification

GenElute™ Plasmid Miniprep

Phenol-based Reagents



Legacy Merck
Legacy Sigma-Aldrich

Both

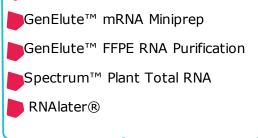


Water Purification
Filtration Discs & Hardware

Solvents, Acids, Bases, Salts, Buffers, Detergents, Proteins, Antibiotics

Labware Alliances

Merck



GenElute™ Mammalian Total RNA

TRI Reagent®

ACADEMIA

Genomics

RNA Purification





ACADEMIA Cell Analysis

- **Balanced Salt Solutions**
- Sterile filtration
- Classical and special media
- Sera
- Diverse cell lines
- Cell culture reagents
- Freezing medium
- Cell dissociation reagents

Cell Preparation



- Scepter Muse Cell Analyzer Muse kits Count
- Plates, flasks, dishes Microfluids Platform In vivo Like 3D cell culture reagents Cellular growth factors Millicell ERS-2 Voltohmmeter Suplements

Grow

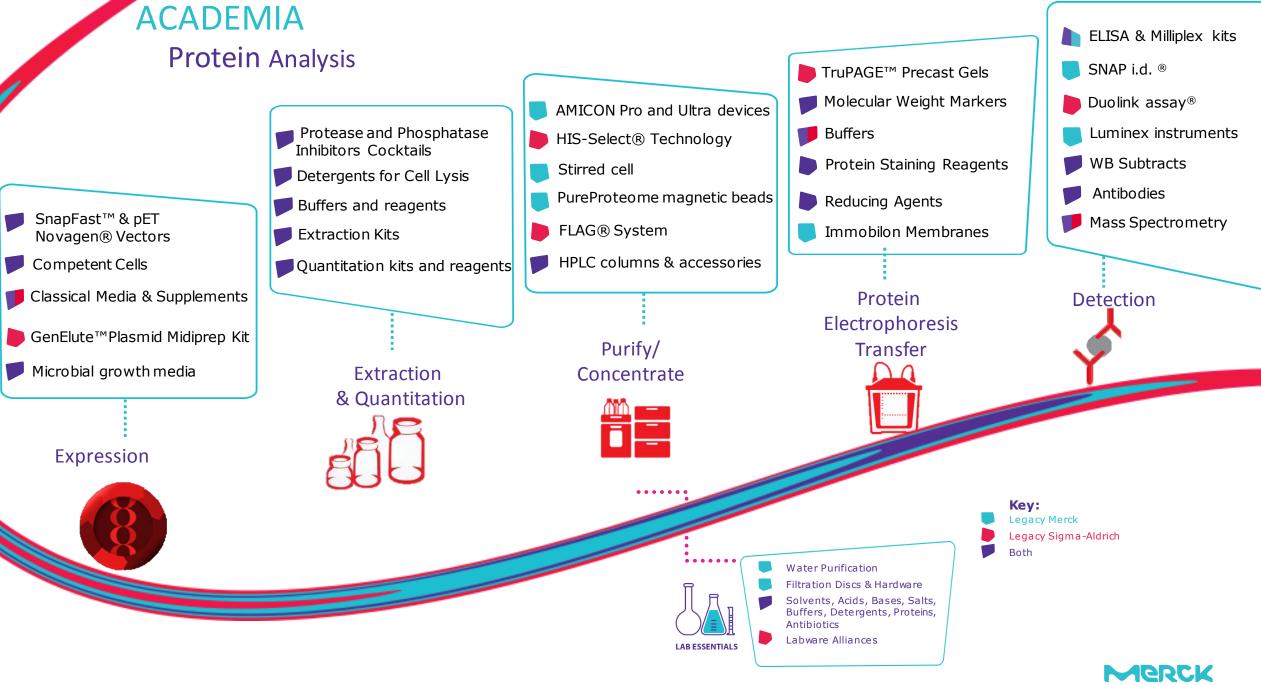
Antibodies FC kits and reagents Imaging Flow Cytometry Benchtop EasyCyte Flow Cytometers Muse Cell Analyzer Microfluids Platform In vivo Like







ACADEMIA Funcional Genomics Bioactive Small Molecules **LOPAC** Quantitative PCR **Custom DNA Oligos** esiRNA Western Blot **CRISPRs** siRNA duplex **Protein inhibition** (Plasmid DNA, Lentivirus or N-TER Transfection mRNA) shRNA clones (Glycerol stock, TransIT Transfection Reagent Gene knockdown Classical Media & Salts Plasmid DNA, Lentivirus) Fetal Bovine Sera (FBS) **Detection** Packaging Mix Reagents and Supplements Gene knockout Culture Flasks ECACC Cell Lines Gene silencing transfection Mammalian cell culture Key: Legacy MERCK Legacy Sigma-Aldrich Water Purification Filtration Discs & Hardware Solvents, Acids, Bases, Salts, Buffers, Detergents, Proteins, Antibiotics Labware Alliances MERCK

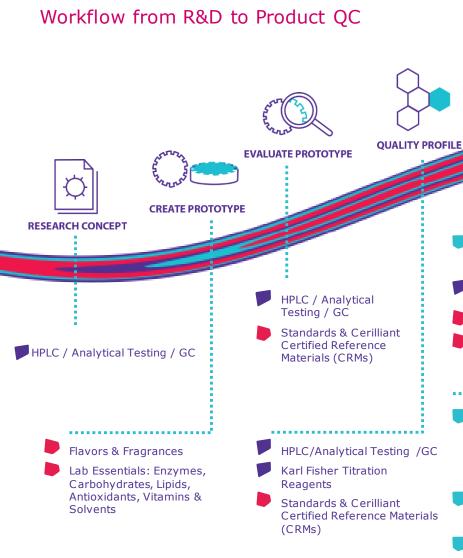


Key: **Contract labs** Legacy Merck Legacy Sigma-Aldrich **Environmental Testing Workflow** Both Proficiency Testing Solvents (HPLC, GC, (Water, Soil and Air) UHPLC, MS and TLC and HPTLC Plates Solid Phase Extraction Pesticide Grades) (Glass, Aluminum and (SPE) - Hardware, Derivatization PET) Cartridges and Reagents (HPLC, GC **Ouechers** HPLC Columns (Porous and TLC) Silica, Fused Core, UHPLC Solid Phase Micro Standards & CRMs and Monolithic) **PRECISION &** Extraction (SPME) Pesticides, PCBs, **ACCURACY** GC Columns (Capillary and PAH and VOC/SVOC) Packed) Syringe filters & Air Monitoring GC Accessories (Inlet, Hardware (Solvent and Thermal Water Spectrophotometry Septa, Ferrules and Gas desorption; bags and and Colorimetric Kits management) passive sampling) Vials, Caps and Inserts PTFE Membrane for Particle Monitoring Syringes (Hamilton and PM2.5 SGE) Reagents for wet and melting digestion **SAMPLE** CRM for ICP/AAS (single and **ANALYSIS** multi element) Inorganic Proficiency Testing LAB ESSENTIALS Solvents, Acids, Bases, Salts, **SAMPLE** Buffers and Detergents. **INSTRUMENTAL PREPARATION** Labware (Electrophoresis, Liquid Handling and Corning) pH strip



Water Purification & Services

APPLIED FOOD & BEVERAGE













- Environmental Monitoring / MAS Eco and RCS Air Samplers, APC Particle Counter ((Ergo Touch Pro 2), Surface Monitoring (Hy-Lite 2, HY-Rise, Envirocheck Contact Slides, Dip Slides, Contact Plates, etc.)
- Filtration and Processing Equipment (Process Solutions)
- Cell Counting Systems (Muse, Scepter, etc.).

Samplers, APC Particle Counter (Ergo Touch Pro 2), Surface Monitoring (Hy-Lite 2, HY-Rise, Envirocheck Contact Slides, Dip Slides, Contact Plates, etc.)

- Milliflex Microbial Testing (Quantum).
- Cell Counting Systems (Muse, Scepter, etc.)

Process Water Testing/

RAW MATERIAL (OC)

...........

Testing (Prove).

HPLC / Analytical

Testina / GC

Point of use Analytics/

Spectroquant UV/Vis

Flavors and Fragrances

Standards & Cerilliant

Certified Reference

Materials (CRMs)

GMP-grade Raw Materials (Process Solutions)

Environmental Monitoring/ MAS Eco

& RCS Air Samplers, APC Particle

Surface Monitoring (Hy-Lite 2, HY-Rise, Envirocheck Contact Slides,

Spectroquant UV/Vis Testing & Kits

(Prove, Move, Picco, RQFlex, etc.).

Dip Slides, Contact Plates, etc.)

Counter (Ergo Touch Pro 2),



LAB ESSENTIALS

Water Purification (Elix, Milli-Q, Direct-Q, etc.)

Legacy Merck Millipore Legacy Sigma-Aldrich

Filtration Discs & Hardware

Both

- Solvents, Acids, Bases, Salts, Buffers, Detergents, Proteins, Antibiotics
- Labware Alliances

Key:



FILL & PACKAGING



PRODUCT QC

DCM, Bioburden In-Process Testing / Pathogen Test Kits (Lateral Flow), EZ Product Family (EZ-Pak, EZ-Curve, EZ-Stream, EZ-Fit Manifold, EZ-Fluo), and

Environmental Monitoring/MAS Eco and RCS Air

- HPLC/Analytical Testing / GC
- Standards & Cerilliant Certified Reference Materials (CRMs)
- ATCC Strains, Aflatoxins kits & rRNA kits for pathogens detection.

PHARMa

Testing and Development Labs Workflow







Key: Legacy Merck Legacy SIAL Both

PROCESS

MONITORING



VALIDATION OF METHODS



DEVELOPMENT













Test Kits: test strips MQuant™, pH test strips MColorpHast™, Colorimetric and titrimetric kits MColortest™









HPLC and GC Columns, TLC plates

CRM - Secundary Standards

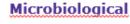
Solid Phase Extraction (SPE)

- Reagents, Solvents, Acids, Bases, Salts, Buffers, Detergents, Silica, Proteins, Chemisorb, Antibodies, Standards, Inhibitors
- Filtration Discs, Devices
- Calibration, Qualification, Application Services

Drug R&D



- Lab Water: Milli-Q®
- Cell Analysis Instruments: Scepter®, Guava®, Muse®, Amnis®
- Analytical Sample Prep: Millex®, Stericup®, MultiScreen® Filter Plates
- Protein Sample Prep: Amicon®, MultiScreen® Filter Plates
- Other LS Research tools
- Chemical Synthesis
- ADME/Tox
- Aldrich Market Select Services





NEW END PRODUCTS

ANALYSIS

- Lab Water: Elix®
- Bioburden In-Process: EZ-Pak®, EZ-Curve®, EZ-Stream®, EZ-Fit Manifold®, EZFFU®, Milliflex® Plus, Milliflex® Quantum and Milliflex® Rapid Microbial Testing
- Environmental: MAS® and RCS® Air Samplers, ICR Plates and Isobags, APC Particle Counter (Ergo Touch Pro 2) / Surface: ICR Swabs and ICR Contact
- Sterility: Steritest® Symbio Family, Dehydrated Culture Media, Sterikon®



MERCK

WATER AND

WASTEWATER

TESTING

