

m-Tech

MONOCLONAL TECHNOLOGIES, INC.

THE LEGIONELLA REFERENCE STANDARD

CDC-pedigree reagents for outbreak investigation, environmental monitoring, and compliance testing since 1988

45+

Serogroup & Species-Specific Reagents

38

Years Serving Environmental & Research Labs

ISO 12869

Validated Molecular Detection Kits

PRODUCT CATALOGUE — 2026

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WHY m-TECH

Founded by Lee Thacker — a 20-year CDC scientist who helped identify the first four Legionella pneumophila serogroups and co-developed the original DFA reagents during the 1976 Legionnaires’ Disease outbreak investigation — m-Tech has supplied reference-grade Legionella reagents to environmental, clinical, and research laboratories for over 38 years.

Every conjugate, antigen, and control we manufacture traces back to the same rigorous methodology that defined the field. When precision matters — whether you're confirming a building-wide outbreak or validating a routine cooling tower sample — m-Tech is the reference standard labs have relied on for nearly four decades.

CDC Pedigree	45+ Reference Strains	ISO 12869 Compliance
Reagents developed by the scientists who defined the field during the original 1976 outbreak investigation.	The broadest panel of serogroup- and species-specific conjugates and antigens available.	Molecular detection kits validated to the international standard for Legionella testing.

ALL FITC CONJUGATES are formulated in Evans blue counter stain with merthiolate as preservative. ALL ANTIGEN SUSPENSIONS are heat-killed antigens suspended in PBS with a clear mordant to assist cell attachment to slide.

Reference: HEW Publication No. [CDC] 79-8375 — “Legionnaires’: The Disease, the Bacterium, and Methodology. Detection of Legionnaires’ Disease Bacteria in Clinical Specimens by Direct Immunofluorescence” by William B. Cherry & Roger M. McKinney.

LEGIONELLA MONOSPECIFIC DFA CONJUGATES

Pinpoint identification across the full serogroup spectrum. m-Tech offers 43 polyclonal FITC-conjugated antibodies covering every recognized *L. pneumophila* serogroup (SG-1 through SG-15) plus 20 non-*pneumophila* species, each validated against a specific reference strain for unambiguous species- and serogroup-level confirmation.

Each conjugate ships as a 2.0 ml vial formulated in Evans blue counter stain with merthiolate preservative — ready to use straight from the vial.

Part Number	Strain / Serogroup	Format
92-100-FL	L.p. SG-1 Knoxville 1 Strain	2.0 ml
92-101-FL	L.p. SG-1 Bellingham 1 Strain	2.0 ml
92-102-FL	L.p. SG-1 Olda Strain	2.0 ml
92-103-FL	L.p. SG-1 Philadelphia 1 Strain	2.0 ml
92-104-FL	L.p. SG-2 Togus 1 Strain	2.0 ml
92-105-FL	L.p. SG-3 Bloomington 2 Strain	2.0 ml
92-106-FL	L.p. SG-4 Portland 1 Strain	2.0 ml
92-107-FL	L.p. SG-4 Los Angeles 1 Strain	2.0 ml
92-108-FL	L.p. SG-5 Cambridge 1 Strain	2.0 ml
92-109-FL	L.p. SG-5 Dallas 1 Strain	2.0 ml
92-110-FL	L.p. SG-6 Chicago 2 Strain	2.0 ml
92-111-FL	L.p. SG-7 Chicago 8 Strain	2.0 ml
92-112-FL	L.p. SG-8 Concord 3 Strain	2.0 ml
92-113-FL	L.p. SG-9 IN-23-G1-C2 Strain	2.0 ml
92-114-FL	L.p. SG-10 Leiden 1 Strain	2.0 ml
92-115-FL	L.p. SG-11 797-PA-H Strain	2.0 ml
92-116-FL	L.p. SG-12 570-CO-H Strain	2.0 ml
92-117-FL	L.p. SG-13 82A3105 Strain	2.0 ml
92-118-FL	L.p. SG-14 1169-MN-H Strain	2.0 ml
92-119-FL	L. pneumophila SG-15 Lansing 3 Strain	2.0 ml
92-120-FL	L. bozemanii SG-1 WIGA Strain	2.0 ml
92-121-FL	L. bozemanii SG-2 Toronto 3 Strain	2.0 ml

92-122-FL	L. dumoffii SG-1 NY-23 Strain	2.0 ml
92-123-FL	L. gormanii SG-1 LS-13 Strain	2.0 ml
92-124-FL	L. micdadei SG-1 Tatlock Strain	2.0 ml
92-125-FL	L. longbeachae SG-1 Long Beach 4 Strain	2.0 ml
92-126-FL	L. longbeachae SG-2 Tucker 1 Strain	2.0 ml
92-127-FL	L. jordanis SG-1 BI-540 Strain	2.0 ml
92-128-FL	L. oakridgensis SG-1 Oak Ridge 10 Strain	2.0 ml
92-129-FL	L. wadsworthii SG-1 81-716 Strain	2.0 ml
92-130-FL	L. feeleeii SG-1 WO-44C-C3 Strain	2.0 ml
92-131-FL	L. feeleeii SG-2 691-WI-H Strain	2.0 ml
92-132-FL	L. sainthelensi SG-1 Mt. St. Helens 4 Strain	2.0 ml
92-133-FL	L. anisa SG-1 WA-316-C3 Strain	2.0 ml
92-134-FL	L. santicrucis SG-1 SC-63-C7 Strain	2.0 ml
92-135-FL	L. steigerwaltii SC-18-C9 Strain	2.0 ml
92-137-FL	L. spiritensis MSH-9 Strain	2.0 ml
92-138-FL	L. hackeliae SG-1 Lansing 2 Strain	2.0 ml
92-139-FL	L. hackeliae SG-2 798-PA-G Strain	2.0 ml
92-140-FL	L. maceachernii SG-1 PX-1-G2-E2 Strain	2.0 ml
92-141-FL	L. jamestowniensis JA-26-G1-E2 Strain	2.0 ml
92-142-FL	L. cherrii ORW Strain	2.0 ml
92-145-FL	L. parisiensis PF-2096-02 Strain	2.0 ml

LEGIONELLA “ALL-IN-ONE” DFA PANVALENTS

Screen first, confirm later. Our panvalent conjugates detect all 14 *L. pneumophila* serogroups or the full non-*pneumophila* panel (*L. bozemanii* through *L. maceachernii*) in a single test — ideal for high-throughput environmental screening before drilling down to monospecific confirmation on positive samples.

Part Number	Description	Format
92-148-FL	DFA All-in-One Conjugate — <i>L. pneumophila</i> SG 1–14 Panvalent	2.0 ml
92-149-FL	DFA All-in-One Conjugate — <i>Legionella</i> Species b–m (<i>bozemanii</i> – <i>maceachernii</i>) Panvalent	2.0 ml
92-150-FL	DFA All-in-One Conjugate — <i>L. pneumophila</i> SG-1 Panvalent	2.0 ml

Pair a panvalent screen with monospecific conjugates (page 3) for a two-tier workflow: rapid broad detection followed by definitive serogroup identification — reducing reagent costs on negative samples.

LEGIONELLA HEAT-KILLED ANTIGENS

Reliable positive controls, every run. Our heat-killed antigen suspensions mirror the monospecific conjugate panel strain-for-strain, giving labs matched positive controls for DFA validation, proficiency testing, and new-lot verification. Suspended in PBS with a clear mordant to promote cell attachment to the slide.

Available across the same 43-strain reference panel as our conjugates. 2.0 ml format.

Part Number	Strain / Serogroup	Format
92-099-H	L. pneumophila SG-1 Pontiac 1 Strain	2.0 ml
92-100-H	L.p. SG-1 Knoxville 1 Strain	2.0 ml
92-101-H	L.p. SG-1 Bellingham 1 Strain	2.0 ml
92-102-H	L.p. SG-1 Olda Strain	2.0 ml
92-103-H	L.p. SG-1 Philadelphia 1 Strain	2.0 ml
92-104-H	L.p. SG-2 Togus 1 Strain	2.0 ml
92-105-H	L.p. SG-3 Bloomington 2 Strain	2.0 ml
92-106-H	L.p. SG-4 Portland 1 Strain	2.0 ml
92-107-H	L.p. SG-4 Los Angeles 1 Strain	2.0 ml
92-108-H	L.p. SG-5 Cambridge 1 Strain	2.0 ml
92-109-H	L.p. SG-5 Dallas 1 Strain	2.0 ml
92-110-H	L.p. SG-6 Chicago 2 Strain	2.0 ml
92-111-H	L.p. SG-7 Chicago 8 Strain	2.0 ml
92-112-H	L.p. SG-8 Concord 3 Strain	2.0 ml
92-113-H	L.p. SG-9 IN-23-G1-C2 Strain	2.0 ml
92-114-H	L.p. SG-10 Leiden 1 Strain	2.0 ml
92-115-H	L.p. SG-11 797-PA-H Strain	2.0 ml
92-116-H	L.p. SG-12 570-CO-H Strain	2.0 ml
92-117-H	L.p. SG-13 82A3105 Strain	2.0 ml
92-118-H	L.p. SG-14 1169-MN-H Strain	2.0 ml
92-119-H	L. pneumophila SG-15 Lansing 3 Strain	2.0 ml
92-120-H	L. bozemanii SG-1 WIGA Strain	2.0 ml
92-121-H	L. bozemanii SG-2 Toronto 3 Strain	2.0 ml

92-122-H	L. dumoffii SG-1 NY-23 Strain	2.0 ml
92-123-H	L. gormanii SG-1 LS-13 Strain	2.0 ml
92-124-H	L. micdadei SG-1 Tatlock Strain	2.0 ml
92-125-H	L. longbeachae SG-1 Long Beach 4 Strain	2.0 ml
92-126-H	L. longbeachae SG-2 Tucker 1 Strain	2.0 ml
92-127-H	L. jordanis SG-1 BI-540 Strain	2.0 ml
92-128-H	L. oakridgensis SG-1 Oak Ridge 10 Strain	2.0 ml
92-129-H	L. wadsworthii SG-1 81-716 Strain	2.0 ml
92-130-H	L. feeleyi SG-1 WO-44C-C3 Strain	2.0 ml
92-131-H	L. feeleyi SG-2 691-WI-H Strain	2.0 ml
92-132-H	L. sainthelensi SG-1 Mt. St. Helens 4 Strain	2.0 ml
92-133-H	L. anisa SG-1 WA-316-C3 Strain	2.0 ml
92-134-H	L. santacruzis SG-1 SC-63-C7 Strain	2.0 ml
92-135-H	L. steigerwaltii SC-18-C9 Strain	2.0 ml
92-137-H	L. spiritensis MSH-9 Strain	2.0 ml
92-138-H	L. hackeliae SG-1 Lansing 2 Strain	2.0 ml
92-139-H	L. hackeliae SG-2 798-PA-G Strain	2.0 ml
92-140-H	L. maceachernii SG-1 PX-1-G2-E2 Strain	2.0 ml
92-141-H	L. jamestowniensis JA-26-G1-E2 Strain	2.0 ml
92-142-H	L. cherrii ORW Strain	2.0 ml

MOUNTING MEDIA, CONTROLS & SLIDES

Complete your DFA workflow with everything needed for slide prep and quality assurance — mounting media, positive and negative control slides, and bulk antisera for labs running custom reagent preparation.

DFA Mounting Media

Part Number	Description
92-057-MF	DFA Slide Mounting Media (15.0 ml)

Controls & Slides

Part Number	Description
92-600-FL	Legionella DFA Negative Control
92-701-S	Legionella pneumophila Serogroup 1–14 DFA Control Slide
92-731-S	Legionella Species (other than pneumophila) DFA Control Slide

Bulk Antisera

For labs preparing custom conjugates or antigens in-house. Custom strain-specific antisera available upon request.

Part Number	Description
92-670-A	Legionella pneumophila SG 1–6 Antisera (4 mg/ml)
92-680-A	Legionella pneumophila SG 1–14 Antisera (4 mg/ml)
92-770-A	Legionella non-pneumophila bozemanii–gormanii Antisera (4 mg/ml)
92-780-A	Legionella non-pneumophila bozemanii–maceachernii Antisera (4 mg/ml)
92-900-A	Legionella Custom Strain-Specific Antisera (4 mg/ml)

Secondary Antibodies

Part Number	Description
92-200-A	Goat anti-Mouse IgG (H+L) Secondary Antibody (2 mg/ml)
92-201-A	Goat anti-Rabbit IgG (H+L) Secondary Antibody (2 mg/ml)
92-202-A	Goat anti-Human IgG (H+L) Secondary Antibody (2 mg/ml)
92-203-A	Goat anti-HB Ag (2 mg/ml)

PCR DETECTION KITS — PATHfinder™

Molecular confirmation in hours, not days. The PATHfinder™ RT-PCR platform delivers ISO 12869-validated detection of Legionella spp., L. pneumophila, and serogroup 1 in a single 50-test kit — plus a full menu of companion waterborne pathogen assays for comprehensive water safety programs.

Standard	Assay Description	Format	Part Number
ISO 12869	PATHfinder™ (RT-PCR) Legionella spp. / L. pneumophila / SG-1	50 Tests	PMB15D-SG-50
	PATHfinder™ (RT-PCR) Salmonella spp.	50 Tests	PMB01A-50
	PATHfinder™ (RT-PCR) Pseudomonas aeruginosa	50 Tests	PMB05A-50
	PATHfinder™ (RT-PCR) Clostridium perfringens	50 Tests	PMB06A-50
	PATHfinder™ (RT-PCR) Shigella spp. (differentiation)	50 Tests	PMB61A-50
	PATHfinder™ (RT-PCR) Escherichia coli & Shigella spp.	50 Tests	PMB14A-50

Run PCR screening alongside DFA confirmation for a complete molecular-plus-immunofluorescence testing program — faster turnaround for triage, definitive serogroup ID when it matters.

ORDERING INFORMATION & CONTACT

Ready to order or need a custom strain, bulk quantity, or technical consultation? Our team — grounded in the same CDC-trained expertise that built this catalogue — is ready to help you choose the right reagent for your testing program.

m-Tech

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Contact us for pricing, volume discounts, custom strains, and bulk antisera orders.