



m-Tech/Monoclonal Antibodies, Inc.

Product Catalogue – 2023



Legionella monoclonal antibodies, antigens and control slides.

Secondary Antibodies

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ALL FITC CONJUGATES are in Evans blue counter stain and contain merthiolate as preservative.

ALL ANTIGEN SUSPENSIONS are heat killed antigens suspended in PBS plus a clear mordant to assist in attachment of cells 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



All in One Conjugates

PRODUCT # 92-148-FL (All in One Conjugate)

DFA test for Legionella pneumophila Sero-Groups 1 – 14

Panvalent FITC Conjugate produced to the following pneumophila strains:

Genus/Species: Legionella pneumophila

Serogroups: 1-14

Strains: Knoxville 1, Bellingham 1, Olda, Philadelphia 1, Togus 1, Bloomington, 2, Portland 1, Los Angeles 1, Cambridge 1, Dallas 1, Chicago 2, Chicago 8, Concord 3, IN-23-G1-C2, Leiden 1, 797-PA-H, 570-CO-H, 82A3105, 1169-MN-H

PRODUCT # 92-150-FL (All in One Conjugate)

DFA test for Legionella pneumophila Sero-Group 1

Panvalent FITC Conjugate produced to the following pneumophila strain:

Genus/Species: Legionella pneumophila

Serogroups: 1

Strains: Knoxville 1, Bellingham 1, Olda, Philadelphia 1

DFA Mounting Media

Product # 92-057-MF

DFA Negative Control

Product # 92-600-FL



PRODUCT # 92-149-FL (All in One Conjugate)

DFA test for Legionella Species b - m (bozemanii - maceachernii). Panvalent FITC Conjugate produced to the following Legionella species strains:

| <u>Species</u> | <u>Serogroup</u> | <u>Strain</u> |
|---------------------------|------------------|------------------|
| Legionella bozemanii | 1 | WIGA |
| Legionella bozemanii | 2 | Toronto 3 |
| Legionella dumoffii | 1 | NY-23 |
| Legionella gormanii | 1 | LS-13 |
| Legionella micdadei | 1 | TATLOCK |
| Legionella longbeachae | 1 | Long Beach 4 |
| Legionella longbeachae | 2 | Tucker 1 |
| Legionella jordanis | 1 | BL-540 |
| Legionella oakridgensis | 1 | Oak Ridge 10 |
| Legionella wadsworthii | 1 | 81-716 |
| Legionella feeleeii | 1 | WO-44C-C3 |
| Legionella feeleeii | 2 | 691-WI-H |
| Legionella sainthelensi | 1 | Mt. St. Helens 4 |
| Legionella anisa | 1 | WA-316-C3 |
| Legionella santicrociscis | 1 | SC-63-C7 |
| Legionella spiritensis | 1 | Mt. St. Helens 9 |
| Legionella hackeliae | 1 | Lansing 2 |
| Legionella hackeliae | 2 | 798-PA-H |
| Legionella maceachernii | 1 | PX-1-G2-E2 |

DFA Negative Control Conjugate

Product # 92-600-FL

DFA Mounting Media

Product # 92-057-MF



LEGIONELLA PNEUMOPHILA MONOSPECIFIC CONJUGATES AND ANTIGENS

* Designated Sero-Group reference type strains

** Suggested supplemental strain to give more complete Sero-Group coverage

| <u>Serogroup</u> | <u>Strain</u> | | <u>Product Number</u> | |
|------------------|----------------|----|-----------------------|---------------------------|
| | | | <u>FITC Conjugate</u> | <u>Antigen Suspension</u> |
| 1 | Knoxville 1 | ** | 92-100-FL | 92-100-H |
| 1 | Bellingham 1 | ** | 92-101-FL | 92-101-H |
| 1 | Olda | ** | 92-102-FL | 92-102-H |
| 1 | Philadelphia 1 | * | 92-103-FL | 92-103-H |
| 2 | Togus 1 | * | 92-104-FL | 92-104-H |
| 3 | Bloomington 2 | * | 92-105-FL | 92-105-H |
| 4 | Portland 1 | ** | 92-106-FL | 92-106-H |
| 4 | Los Angeles 1 | * | 92-107-FL | 92-107-H |
| 5 | Cambridge 1 | ** | 92-108-FL | 92-108-H |
| 5 | Dallas 1 | * | 92-109-FL | 92-109-H |
| 6 | Chicago 2 | * | 92-110-FL | 92-110-H |
| 7 | Chicago 8 | * | 92-111-FL | 92-111-H |
| 8 | Concord 3 | * | 92-112-FL | 92-112-H |
| 9 | IN-23-G1-C2 | * | 92-113-FL | 92-113-H |
| 10 | Leiden 1 | * | 92-114-FL | 92-114-H |
| 11 | 797-PA-H | * | 92-115-FL | 92-115-H |
| 12 | 570-CO-H | * | 92-116-FL | 92-116-H |
| 13 | 82A3105 | * | 92-117-FL | 92-117-H |
| 14 | 1169-MN-H | * | 92-118-FL | 92-118-H |

DFA Negative Control Conjugate

92-600-FL



LEGIONELLA b-m MONOSPECIFIC CONJUGATES AND ANTIGENS

* designated Species Type Strains.

| <u>Species</u> | <u>Serogroup</u> | <u>Strain</u> | <u>Product Number</u> | | |
|--------------------------------|-------------------------|----------------------|--------------------------------|------------------------------------|--|
| | | | <u>FITC Conjugate #</u> | <u>Antigen Suspension #</u> | |
| L. bozemanii | 1 | WIGA * | 92-120-FL | 92-120-H | |
| L. bozemanii | 2 | Toronto 3 * | 92-121-FL | 92-121-H | |
| L. dumoffii | 1 | NY-23 * | 92-122-FL | 92-122-H | |
| L. gormanii | 1 | LS-13 * | 92-123-FL | 92-123-H | |
| L. micdadei | 1 | TATLOCK * | 92-124-FL | 92-124-H | |
| L. longbeachae | 1 | Long Beach 4 * | 92-125-FL | 92-125-H | |
| L. longbeachae | 2 | Tucker 1 * | 92-126-FL | 92-126-H | |
| L. jordanis | 1 | BL-540 * | 92-127-FL | 92-127-H | |
| L. oakridgensis | 1 | Oak Ridge 10 * | 92-128-FL | 92-128-H | |
| L. wadsworthii | 1 | 81-716 * | 92-129-FL | 92-129-H | |
| L. feeleii | 1 | WO-44C-C3 * | 92-130-FL | 92-130-H | |
| L. feeleii | 2 | 691-WI-H * | 92-131-FL | 92-131-H | |
| L. sainthelensi | 1 | Mt. St. Helens 4 * | 92-132-FL | 92-132-H | |
| L. anisa | 1 | WA-316-C3 * | 92-133-FL | 92-133-H | |
| L. santicrucis | 1 | SC-63-C7 * | 92-134-FL | 92-134-H | |
| L. spiritensis | 1 | Mt. St. Helens 9 * | 92-137-FL | 92-137-H | |
| L. hackeliae | 1 | Lansing 2 * | 92-138-FL | 92-138-H | |
| L. hackeliae | 2 | 798-PA-H * | 92-139-FL | 92-139-H | |
| L. maceachemii | 1 | PX-1-G2-E2 * | 92-140-FL | 92-140-H | |
| DFA Negative Control Conjugate | | | 92-600-FL | | |
| DFA Mounting Media | | | 92-057-MF | | |

DFA MONO-SPECIFIC CONJUGATES (NOT IN PANVALENT)*

| <u>Species</u> | <u>Strain</u> | <u>Product Number</u> | |
|-----------------------|----------------------|--------------------------------|------------------------------------|
| | | <u>FITC Conjugate #</u> | <u>Antigen Suspension #</u> |
| L. pneumophila SG 15 | Lansing 3 | 92-119-FL | 92-119-H |
| L. steigerwaltii | SC-18-C9 | 92-135-FL | 92-135-H |
| L. spiritensis | MSH-9 | 92-137-FL | 92-137-H |
| L. jamestowniensis | JA-26-G1-E2 | 92-141-FL | 92-141-H |
| L. cherrii | ORW | 92-142-FL | 92-142-H |

DFA Mounting Media 92-057-MF

DFA Negative Control 92-600-FL

Legionella pneumophila DFA Control Slides

Catalog # 92-701-S

| <u>Well</u> | <u>Serogroup</u> | <u>Strain#</u> | <u>Product #</u> |
|----------------------|------------------|----------------|------------------|
| 1 | 1 | Philadelphia 1 | 92-103-H |
| 2 | 1 | Knoxville 1 | 92-100-H |
| 3 | 1 | Olda | 92-102-H |
| 4 | 2 | Togus 1 | 92-104-H |
| 5 | 3 | Bloomington 2 | 92-105-H |
| 6 | 4 | Los Angeles 1 | 92-107-H |
| 7 | 4 | Portland 1 | 92-106-H |
| 8 | 5 | Dallas 1 | 92-109-H |
| 9 | 5 | Cambridge 1 | 92-108-H |
| 10 | 6 | Chicago 2 | 92-110-H |
| 11 | 7 | Chicago 8 | 92-111-H |
| 12 | 8 | Concord 3 | 92-112-H |
| 13 | 9 | IN-23-G1-C2 | 92-113-H |
| 14 | 10 | Leiden 1 | 92-114-H |
| 15 | 11 | 797-PA-H | 92-115-H |
| 16 | 12 | 570-CO-H | 92-116-H |
| 17 | 13 | 82A3105 | 92-117-H |
| 18 | 14 | 1169-MN-H | 92-118-H |
| DFA Negative Control | | | 92-600-FL |
| DFA Mounting Fluid | | | 92-057-MF |

Store at -20° Centigrade - Desiccate if possible. Prior to staining slide should be gently heat-fixed.



Legionella b-m DFA Control Slides

Catalog # 92-731-S

| <u>Well</u> | <u>Serogroup</u> | <u>Description</u> | <u>Strain</u> | <u>Product #</u> |
|-------------|------------------|--------------------|------------------|------------------|
| 1 | 1 | L. bozemanii | WIGA | 92-120-H |
| 2 | 2 | L. bozemanii | Toronto 3 | 92-121-H |
| 3 | 1 | L. dumoffii | NY-23 | 92-122-H |
| 4 | 1 | L. gormanii | LS-13 | 92-123-H |
| 5 | 1 | L. micdadei | TATLOCK | 92-124-H |
| 6 | 1 | L. longbeachae | Long Beach 4 | 92-125-H |
| 7 | 2 | L. longbeachae | Tucker 1 | 92-126-H |
| 8 | 1 | L. jordanis | BI-540 | 92-127-H |
| 9 | 1 | L. oakridgensis | Oak Ridge 10 | 92-128-H |
| 10 | 1 | L. wadsworthii | 81-716 | 92-129-H |
| 11 | 1 | L. feeleii | WO-44C-C3 | 92-130-H |
| 12 | 2 | L. feeleii | 691-WI-H | 92-131-H |
| 13 | 1 | L. sainthelensi | Mt. St. Helens 4 | 92-132-H |
| 14 | 1 | L. anisa | WA-316-C3 | 92-133-H |
| 15 | 1 | L. santicrucis | SC-63-C7 | 92-134-H |
| 16 | 1 | L. hackeliae | Lansing 2 | 92-138-H |
| 17 | 2 | L. hackeliae | 798-PA-H | 92-139-H |
| 18 | 1 | L. maceachernii | PX-1-G2-E2 | 92-140-H |

DFA Negative Control 92-600-FL

DFA Mounting Fluid 92-057-MF

Store at -20° Centigrade - Desiccate if possible. Prior to staining slide should be gently heat-fixed.



SECONDARY ANTIBODIES (For Research Use)

| <u>Antibody Type</u> | <u>Product #</u> |
|--|-------------------------|
| Goat anti-Mouse IgG (H + L) Secondary Antibody (2 mg) | 92-200-A |
| Goat anti-Rabbit IgG (H + L) Secondary Antibody (2 mg) | 92-201-A |

About m-Tech

m-Tech was founded in 1984 by Lee Thacker, one of the CDC's principal scientists assigned to research the 1976 Legionella outbreak. As part of his research in detecting legionella from the 1976 outbreak, he helped develop reagents for the first DFA legionella test while describing the first four serogroups of Legionella pneumophila. He also produced the first monoclonal antibodies to Legionella.

m-Tech commercialized the first DFA conjugates used in the detection of Legionella pneumophila while also developing an "all in one" conjugate that can detect up to 14 serogroups in one conjugate. m-Tech has also created a novel "all in one" conjugate for the detection of 19 Legionella Species b-m (bozemanii-maceachernii).

m-Tech is your expert in developing conjugates and antigens specific to Legionella used in research and environmental legionella testing.

m-TECH products are sold throughout the U.S, Europe and other countries around the world.
Serogroup 1-14 and Species b-p DFA tests are accurate and reliable.
Contact us by e-mail at m-tech@mindspring.com for more information on distribution in your area.

Contact Information

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