Orientation Tests

Bio-Rad's identification tests provide key biochemical tests in an impregnated filter paper.

Optochin

Optochin-impregnated paper disks for the identification of *Streptococcus pneumoniae* species.

Kovacs Reagent

Reagent used as an aid in the diagnosis of infectious diseases, for determining the indole production from *Enterobacterales* species possessing a tryptophanase commonly encountered in clinical specimens. The reagent is used from fresh isolated colonies on culture agar plates or broth media containing tryptophan.

Rabbit Plasma

Reagent used as an aid in the diagnosis of infectious diseases, for the qualitative detection of free coagulase enzyme produced by coagulase-positive staphylococci strains commonly encountered in clinical specimens (mainly *S. aureus*). The reagent is used from a broth subculture of the bacterial strain to be examined.

Ordering Information

Catalog #	Description
53852	**Optochin**, 30 disks
55313	**Kovacs Reagent**, 2 vials x 15 mL
56352	**Rabbit Plasma**, 1 vial x 10 mL

***Related Products**: Blood Agar, UriSelect4 Agar, SaSelect Agar, Mueller-Hinton Agar, Chocolate Agar, Columbia Agar + 5% Sheep Blood.*

Bacterial Serotyping Antisera

Bio-Rad offers a complete product line of antisera for serotyping, used for epidemiological purposes.

Contact your Bio-Rad representative to get the Bacterial Serotyping Brochure (17350)

Escherichia coli (EPEC)

Antisera used for serological identification of cultures of enteropathogenic *Escherichia coli* for epidemiological purposes using a qualitative slide agglutination method.

Ordering Information

Catalog #	Description
Polyvalent Antisera	
57411*	***E. coli* I Nonavalent (mixture of Trivalent I + II + III)**, 3 mL
57331*	***E. coli* Trivalent I (0111 + 055 + 026)**, 3 mL
57341*	***E. coli* Trivalent II (086 + 0119 + 0127)**, 3 mL
57351*	***E. coli* Trivalent III (0125 + 0126 + 0128)**, 3 mL
57361*	***E. coli* Trivalent IV (0114 + 0124 + 0142)**, 3 mL
Monovalent Antisera	
57241*	***E. coli* (0111)**, 3 mL
57221*	***E. coli* (055)**, 3 mL
57211*	***E. coli* (026)**, 3 mL
57231*	***E. coli* (086)**, 3 mL
57251*	***E. coli* (0119)**, 3 mL
57281*	***E. coli* (0127)**, 3 mL
57261*	***E. coli* (0125)**, 3 mL
57271*	***E. coli* (0126)**, 3 mL
57291*	***E. coli* (0128)**, 3 mL
57201*	***E. coli* (0124)**, 3 mL
57301*	***E. coli* (0114)**, 3 mL
57311*	***E. coli* (0142)**, 3 mL

** Non CE-Marked.*

Pseudomonas aeruginosa

Antisera used for serological identification of cultures of *Pseudomonas aeruginosa* for epidemiological purposes using a qualitative slide agglutination method.

Ordering Information

Catalog #	Description
Polyvalent Antisera	
58922*	**PMA = P1 + P3 + P4 + P6**, 3 mL
58932*	**PME = P2 + P15 + P1 + P16**, 3 mL
58942*	**PMC = P9 + P10 + P13 + P14**, 3 mL
58952*	**PMF = P11 + P12 + P7 + P8**, 3 mL
Monovalent Antisera	
58901*	**P1**, 3 mL
58902*	**P2**, 3 mL
58903*	**P3**, 3 mL
58904*	**P4**, 3 mL
58905*	**P5**, 3 mL
58906*	**P6**, 3 mL
58907*	**P7**, 3 mL
58908*	**P8**, 3 mL
58909*	**P9**, 3 mL
58910*	**P10**, 3 mL
58911*	**P11**, 3 mL
58912*	**P12**, 3 mL
58913*	**P13**, 3 mL
58914*	**P14**, 3 mL
58915*	**P15**, 3 mL
58916*	**P16**, 3 mL

** Non CE-Marked.*

Shigella

Antisera for the serological identification of cultures of *Shigella* by the slide agglutination method for epidemiological purposes.

Ordering Information

Catalog #	Description
57183*	**Polyvalent *Anti-S. boydii*: C1 (1, 2, 3, 4) + C2 (8, 10, 14) + C3 (5, 7, 9, 11, 15)**, 3 x 2 mL
57182*	**Polyvalent *Anti-S. dysenteriae*: A1 (1, 3, 4, 5, 6) + A2 (2, 7, 8)**, 2 x 2 mL
57151*	**Polyvalent *Anti-S. flexneri*: B (agglutinates the six Serotypes + X and Y)**, 2 mL
57171*	**Polyvalent *Anti-S. sonnei*: D (agglutinates the two Phases of *S. sonnei*)**, 2 mL
57161*	**Monovalent *Anti-S. dysenteriae* 1**, 2 mL

** Non CE-Marked.*

Salmonella

Salmonella antisera are designed for serological identification of cultures of organisms belonging to the genus *Salmonella* according to the Kauffmann-White classification for epidemiological purposes using a qualitative slide agglutination method.

Ordering Information

Catalog #	Description
Polyvalent O Antisera	
60781*	**OMNI-O (Group A to 60)**, 3 mL
60801*	**OMA: Group A, B, D, E, L (1, 2, 12 + 4, 5, 12 + 9, 12 + 9, 46 + 3, 10 + 3, 15 + 1, 3, 19 + 21)**, 3 mL
60811*	**OMB: Group C, F, G, H (6, 7 + 6, 8 + 11 + 13, 22 + 13, 23 + 6, 14, 24 + 8, 20)**, 3 mL
60821*	**OMC: Group I, J, K, M, N, O, P (16 + 17 + 18 + 28 + 30 + 35 + 38)**, 3 mL
60831*	**OMD: Group Q, R, S, T, U, V, W (39 + 40 + 41 + 42 + 43 + 44 + 45)**, 3 mL
60841*	**OME: Group X, Y, Z, 51 to 53, 61 (47 + 48 + 50 + 51 + 52 + 53 + 61)**, 3 mL
60851*	**OMF: Group 0:54 to 0:59 (54 + 55 + 56 + 57 + 58 + 59)**, 3 mL
60861*	**OMG: Group 0:60 to 0:67 (60 + 62 + 63 + 65 + 66 + 67)**, 3 mL
Polyvalent H Antisera	
60451*	**HMA (a + b + c + d + i + z10 + z29)**, 3 mL
60461*	**HMB (e, h + e, n, x + e, n, z15 + G)**, 3 mL
60471*	**HMC (k + y + L + Z4 + r)**, 3 mL
60481*	**HMD (z35 + z36 + z38 + z39 + z41 + z42 + z44 + z60)**, 3 mL
60493*	**HM III (z52 + z53 + z54 + z55 + z57 + z61)**, 3 mL
60401*	**H1 (1, 2 + 1, 5 + 1, 6 + 1, 7 + z6)**, 3 mL
60411*	**HL (l, v+l, w+l, z13 + l, z28 + l, z40)**, 3 mL
60391*	**HE (e, h + e, n, x + e, n, z15)**, 3 mL
60431*	**HZ4 (z4, z23 + z4, z24 + z4, z32)**, 3 mL
60441*	**HG (f, g + g, p + g, m, s + g, m + m, t)**, 3 mL

** Non CE-Marked.*

Ordering Information

Catalog #	Description
Monovalent O Antisera	
59031*	**O:1, 2**, 3 mL
59021*	**O:4, 5**, 3 mL
59062*	**O:6, 7, 8**, 3 mL
59081*	**O:7**, 3 mL
59091*	**O:8**, 3 mL
59101*	**O:9**, 3 mL
59112*	**O:3, 10, 15**, 3 mL
59127*	**O:15**, 3 mL
59131*	**O:1, 3, 19**, 3 mL
59141*	**O:11**, 3 mL
59162*	**O:13, 22, 23**, 3 mL
59171*	**O:6, 14, 24**, 3 mL
60951*	**Vi Antiserum**, 3 mL
Monovalent H Antisera	
60111*	**H:a**, 3 mL
60121*	**H:b**, 3 mL
60131*	**H:c**, 3 mL
60141*	**H:d**, 3 mL
61121*	**H:g,m**, 3 mL
61122*	**H:g,p**, 3 mL
61119*	**H:h**, 3 mL
60161*	**H:i**, 3 mL
60171*	**H:k**, 3 mL
61117*	**H:m**, 3 mL
61118*	**H:p**, 3 mL
60201*	**H:r**, 3 mL
61115*	**H:v**, 3 mL
61116*	**H:w**, 3 mL
61123*	**H:x**, 3 mL
60211*	**H:y**, 3 mL
60221*	**H:z**, 3 mL
60241*	**H:z10**, 3 mL
61111*	**H:2**, 3 mL
61112*	**H:5**, 3 mL
61113*	**H:6**, 3 mL
61114*	**H:7**, 3 mL
***Salmonella*: Phase Inversion H Antisera (Sven Gard Method)**	
61011 SG1*	**(a + b + c + z10)**, 3 mL
61021 SG2*	**(d + i + e, h)**, 3 mL
61031 SG3*	**(k + y + l, v + l, w + l, z13 + l, z28)**, 3 mL
61041 SG4*	**(r + z)**, 3 mL
61051 SG5*	**(e, n, x + e, n, z15)**, 3 mL
61061 SG6*	**(1, 2 + 1, 5 + 1, 6 + 1, 7 + z6)**, 3 mL
53430*	**Sven Gard Agar**, 25 tubes x 25 mL

***Salmonella* Typhi and Paratyphi A, B, C**

Polyvalent antisera T, A, B, C, Vi for presumptive serological identification of the *Salmonella* strains most commonly isolated from blood cultures.

61261*	***Salmonella* Typhi and Paratyphi A, B, C**, 5 x 3 mL

** Non CE-Marked.*

Neisseria Y + W135 + 29E

Neisseria Y + W135 + 29E

Freeze-dried antisera designed for the serological identification of cultures of *N. meningitidis* by the slide agglutination method for epidemiological purposes.

Ordering Information

Catalog #	Description
58704*	**Neisseria Y + W135 + 29E**, 3 x 2 mL

** Non CE-Marked.*

Yersinia

Yersinia O:3 and _Yersinia_ O:9

Antisera designed for the serological identification of cultures of *Y. enterocolitica* (O:3 and O:9) by the slide agglutination method for epidemiological purposes.

Ordering Information

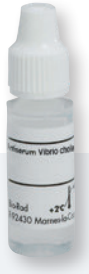
Catalog #	Description
63501*	**Yersinia O:3**, 2 mL
63502*	**Yersinia O:9**, 2 mL

** Non CE-Marked.*

Vibrio cholerae

Vibrio cholerae O1

Antiserum designed for the serological identification of cultures of *Vibrio cholerae* O1 by the slide agglutination method for epidemiological purposes.



Ordering Information

Catalog #	Description
57142*	**Vibrio cholerae O1**, 1 mL

** Non CE-Marked.*

Latex Agglutination Tests

Bio-Rad offers a reliable range of CE-marked latex agglutination kits to manage the detection and identification of bacterial strains responsible for meningitis, the grouping of streptococci strains according to the Lancefield classification, and the accurate and simple identification of *Staphylococcus aureus* strains.

The Pastorex range have common benefits:

- Easy protocol of use: basic technician skills and equipment required
- Friendly technical handling: each latex dropper bottle is identified with a color-coded cap
- Clear single-eye reading: highly contrasted colored latex particles
- Robust reactions: metallic droppers ensure the delivery of calibrated drops of latex reagents
- Complete kits format: latex dropper bottles, control reagent(s), Agglutination Cards, and sticks
- Flexible offer: latex dropper bottles, control reagents, and cards, available individually

Range partially or fully listed on the following regulatory certifications:
CE, TGA, PMDA, COFEPRIS, ANVISA, SwissMedic, Canada Health, FDA

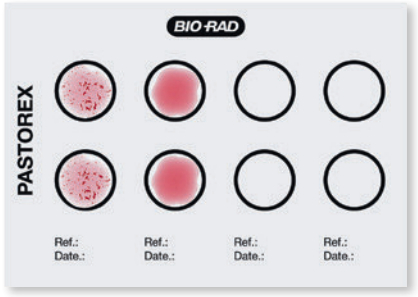
Staphylococcus aureus Identification

Pastorex Staph-Plus

Manual qualitative agglutination test intended for the identification of *Staphylococcus aureus* from suspected staphylococci colonies obtained on agar culture plates.

Aids in the diagnosis of any patient suffering from wounds or respiratory tract infection, healthcare-associated bacteremia, and nosocomial pneumoniae.

Allows for the simultaneous detection of fibrinogen affinity (clumping factor), protein A, and capsular polysaccharides of *Staphylococcus aureus*.



- Rapid and accurate identification of all *S. aureus* strains, including highly encapsulated *S. aureus* and MRSA strains
- High sensitivity: direct assay from only a single colony
- Compatible testing with MRSASelect II and SaSelect Chromogenic Agar facilitates accreditation
- Safe: does not contain sodium azide or thimerosal

Contact your Bio-Rad representative to get the Pastorex Range Brochure (16037)

Ordering Information

Catalog #	Description
56356	**Pastorex Staph-Plus**, 50 tests
56353	**Pastorex Staph-Plus**, 5 x 50 tests
61723	**Agglutination Cards (8 background circles on white background)**, 3 x 15 cards

***Related Products**: MRSASelect II, SASelect.*

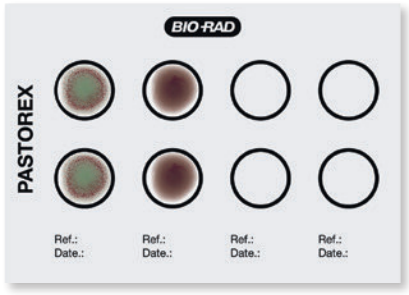
Streptococci Grouping

Pastorex Strep

A family of manual qualitative agglutination tests intended for grouping streptococci according to the Lancefield classification (A, B, C, D, F, and G groups), from suspected streptococci colonies obtained on agar culture plates.

Aids in the diagnosis of any patient suffering from oral, genital, or intestinal diseases such as pharyngitis, skin infections, puerperal sepsis or neonatal infections.

Identification of group-specific antigens by homologous antisera requires a prior enzymatic extraction.



- Allows for the identification of Group D streptococci (enterococci), responsible for urinary tract infections and endocarditis
- Highly contrasted clump observation based on a unique bichromatic agglutination: red clumps on a green background
- Compatible testing from StrepBSelect Chromogenic Agar, by a direct grouping procedure from a single colony, facilitates accreditation
- Safe: does not contain sodium azide or thimerosal

Contact your Bio-Rad representative to get the Pastorex Range Brochure (16037)

Ordering Information

Catalog #	Description
61721	**Pastorex Strep**, 60 tests
61726	**Pastorex Strep A Latex**, 60 tests
61727	**Pastorex Strep B Latex**, 60 tests
61732	**Pastorex Strep C Latex**, 60 tests
61728	**Pastorex Strep D Latex**, 60 tests
61733	**Pastorex Strep F Latex**, 60 tests
61734	**Pastorex Strep G Latex**, 60 tests
61729	**Pastorex Strep Extraction Enzyme**, 2 bottles of 30 tests
61723	**Agglutination Cards (8 background circles on white background)**, 3 x 15 cards

***Related Product**: StrepBSelect.*

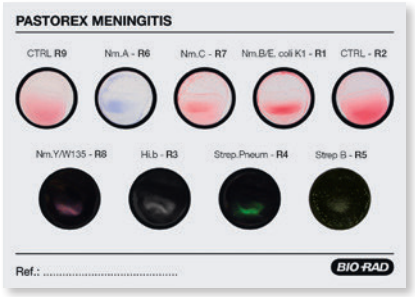
Bacterial Meningitis Identification

Pastorex Meningitis

Manual qualitative agglutination test intended for the rapid diagnosis of bacterial meningitis in suspected patients with clinical symptoms such as fever, headache, neck stiffness, altered consciousness or other meningeal signs.

Aids in the diagnosis of bacterial meningitis by the detection of soluble antigens to *Neisseria meningitidis* groups A, B/*E. coli* K1, C, Y/W135, *Haemophilus influenzae* type b, *Streptococcus pneumoniae* and group B *Streptococcus* in cerebrospinal fluid.

Diagnose bacterial meningitis by identification of these bacterial strains (excepted *Nm* group Y/W135) from suspected colonies isolated on agar culture media.



- Accurate epidemiology to align with the WHO strategy of prevention and outbreak control
- Allows for prompt and appropriate vaccination initiation in cases of outbreaks (especially with the distinctive detection of *N. meningitidis* A and *N. meningitidis* C)
- Single kit for several uses
- Quick User Guide available for easy benchtop practices
- Safe: does not contain sodium azide or thimerosal

Contact your Bio-Rad representative to get the Pastorex Range Brochure (16037)

Contact your Bio-Rad representative to get the Pastorex Meningitis Quick Guide (PF348)

Ordering Information

Catalog #	Description
61607	**Pastorex Meningitis**, 25 tests
61608	**Pastorex Meningitis, *N. meningitidis* A Latex**, 25 tests
61610	**Pastorex Meningitis, *N. meningitidis* C Latex**, 25 tests
61611	**Pastorex Meningitis, *N. meningitidis* B/*E. coli* K1 Latex**, 25 tests
61613	**Pastorex Meningitis, *Streptococcus* B Latex**, 25 tests
61614	**Pastorex Meningitis, *Streptococcus pneumoniae* Latex**, 25 tests
61616	**Pastorex Meningitis, *H. influenzae* b Latex**, 25 tests
61618	**Pastorex Meningitis, Control Reagents**, 2 x 25 tests

Urogenital Mycoplasma Culture, Identification, Titration, and Susceptibility Testing

Bio-Rad offers a complete line of products for the isolation, identification, titration, and susceptibility testing of urogenital mycoplasmas.

Collection, Transport and Storage

Suspension-Transport Medium

Liquid medium for the suspension, transport, and storage of specimens (additional vials for use with the Bio-Rad Mycoplasma Duo Kit #62740).

Ordering Information

Catalog #	Description
62739	**Mycoplasma Duo Suspension Medium**, 40 vials x 2 mL

Detection

Arginine Broth

Freeze-dried medium for *Mycoplasma hominis* (inoculum for the Bio-Rad S.I.R. Mycoplasma Kit (#62781*).

U_9 Broth

Freeze-dried urea broth medium for the growth of *Ureaplasma* spp. which can be used to:

- Detect, identify, and titrate genito-urinary *Mycoplasma* spp. (serial tube or microplate dilution method)
- Prepare the inoculum for susceptibility testing in liquid medium with the Bio-Rad S.I.R. Mycoplasma Kit (#62781*)

Ordering Information

Catalog #	Description
62763*	**Arginine Broth**, 10 ampules x 2 mL
62762*	**U9 Broth**, 10 ampules x 2 mL

** Non CE-Marked.*

Identification and Titration

Mycoplasma Duo Kit

Complete kit for the culture, identification, and differential titration of *Ureaplasma* spp. (*U. urealyticum* and *U. parvum*) and *Mycoplasma hominis* within 24 to 48 hours.

The test consists of a 6-well microplate containing dehydrated mycoplasma culture medium enriched with specific substrates (urea and arginine) for the identification of *Ureaplasma* spp. and *M. hominis*. The titration is based on serial dilutions of U_9 and Arginine Broths, in accordance with the reference method. A dedicated well, "X", in the microplate is designed for the preparation of a standardized inoculum for further antibiotic susceptibility testing (Bio-Rad S.I.R. Mycoplasma Kit).

- Specific identification of the main mycoplasmas involved in genital diseases
- Allows you to rapidly rule out the implication of mycoplasmas in case of a negative result
- Samples can be stored in the suspension-transport media for two days at ambient temperature before microplate inoculation
- Basic laboratory equipment and basic technician skills required
- Simplified reading method ensures accurate interpretation of results

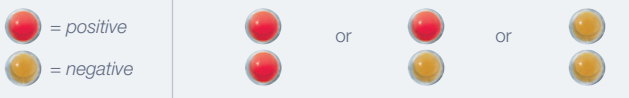
Reading and Interpretation after 48 hours at 37°C

1 - Color Reading

= *positive*

= *negative*

2 - Titer Determination



High titer ≥ 10^4 ccU/mL

Low titer ≤ 10^3 ccU/mL

Absence

ccU = changing color unit

Listed on the following regulatory certifications: CE, COFEPRIS, ANVISA, SwissMedic, Canada Health, TFDA

Ordering Information

Catalog #	Description
62740	**Mycoplasma Duo Kit**, 20 tests

Susceptibility Testing

S.I.R. Mycoplasma Kit

16-well microplates for antibiotic susceptibility testing of urogenital mycoplasmas.

- Testing is only performed if the specimen is positive for urogenital mycoplasmas to prevent unnecessary testing of negative samples
- If a specimen is positive with a mix of *Ureaplasma* spp. and *M. hominis*, separate ASTs can be performed with reliable results
- Standardized inoculum from the Mycoplasma Duo "X" Well allows for reliable performances

Reading and Interpretation after 24-48 hours at 37°C

1 - Color Reading

= *positive*

= *negative*

2 - Expected Growth Control Wells

Low c High C

3 - Resistance Interpretation

Low c	High C	(mg/L)
		Resistant
		Intermediate
		Susceptible

Ordering Information

Catalog #	Description
62781*	**S.I.R. Mycoplasma Kit**, 10 tests

** Non CE-Marked.*