

MONOTOPE™ product information for
Gram negative bacteria

I. Monoclonal Antibody (Mouse) Specificity

Product No.'s	Ig class	
1055	IgG2a	Specific to LPS common to many Enterobacteriaceae. ELISA & IFA. Pairs as a conjugate with Mab 1054*
1054	IgG2b	Specific to LPS common to many Enterobacteriaceae. ELISA & IFA. Pairs as a capture with Mab 1055*

II. Purified Preparations

Product No.'s	1055
	1054

MONOTOPE™ purified preparations consist of >90% pure mouse monoclonal antibody which has been purified from ascites fluid or culture medium by protein A chromatography or sequential differential precipitations. The final preparation is formulated to a protein concentration of 100 µg/ml in 0.01 M phosphate buffered saline, pH 7.2 and contains 0.1% sodium azide. Each vial contains 1.0 ml. This product contains no stabilizing proteins and should be stored at 2-8°C until ready for use. Working dilution must be determined by the user. Suggested starting ranges are 1:10-1:50 for IFA and 1:20-1:200 for ELISA.

THESE PRODUCTS ARE FOR RESEARCH USE ONLY NOT FOR USE IN DIAGNOSTIC PROCEDURES

III. Fluorescein Conjugates

Product No.'s

These MONOTOPE™ products consist of purified monoclonal antibody conjugated with high purity isomer I of fluorescein isothiocyanate. Care is taken to ensure complete removal of any free fluorescein from the final product. The final preparation is formulated to an antibody concentration of 100 µg/ml in 0.01 M phosphate buffered saline, pH 7.2 containing 0.1% sodium azide plus bovine serum albumin at 10 mg/ml. Each vial contains 1.0 ml. This product should be stored at 2-8°C until ready for use. Avoid repeated freeze-thawing by storing multiple aliquots at -20°C. Applications for these products include direct FA staining of target antigen in a permissive tissue culture system. Working strength must be determined by the user for each specific application but a starting range of 1:5 - 1:20 is recommended. Acetone fixation of the antigen source is recommended prior to staining.

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Comments: *These antibodies form a pair to detect the LPS of many members of the Enterobacteriaceae. See attached reactivity table.

Gram - LPS ELISA* Reactivities (#1054 + #1055)

Result	Bacterial species
+	E. coli O2
+	E. coli O7
+	E. coli O14
+	E. coli O20
+	E. coli O26
+	E. coli O28
+	E. coli O157
+	E. coli O55
+	E. coli O111
+	E. coli O125
+	E. coli O126
+	Salmonella typhimurium (B)
+	Salmonella minnesota (L)
+	Salmonella senftenberg (E4)
+	Salmonella drypool (E3)
+	Salmonella Kentucky (C3)
+	Salmonella Newport (C2)
+	Salmonella Thompson (C1)
+	Salmonella Rubislaw (F)
+	Salmonella poona (G1)
+	Salmonella carrao (H1)
+	Salmonella typhi (D)
+	Shigella sonnei
+	Shigella flexneri 1a
+	Shigella flexneri 2a
+	Shigella dysenteria
+	Shigella flexneri 2b
+	Shigella flexneri 1b
+	Shigella flexneri 3a
+	Shigella flexneri 4a
+	Shigella flexneri 5a
+	Shigella flexneri 3b
+	Shigella flexneri 4c
+	Shigella boydii, type 1

- + **Enterobacter cloacae**
- + **Citrobacter freundii**
- + **Klebsiella pneumoniae**
- + **Serratia marcescens**
- + **Yersinia enterocolitica**
- + **Hafnia alvei**
- + **Cronobacter sakazakii**

- **Proteus vulgaris**
- **Proteus mirabilis**
- **Proteus OX19**
- **Pseudomonas aeruginosa**
- **Vibrio cholera O139**
- **Plesiomonas shigelloides**
- **Morganella morganii**
- **Edwardsiella tarda**
- **Listeria monocytogenes 3b**
- **Streptococcus pyogenes**

*ELISA sandwich assay employing #1054 Mab as capture + #1055 Mab as biotin conjugate.
Purified bacterial suspensions diluted @ 1:1,000 in LPS extraction buffer as antigen source.