

PRODUCT SPECIFICATION

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HSR 001 Mannan-binding lectin standard serum (1000 AU)

Human serum

Article No.	36830
Product Name	HSR 001 Mannan-binding lectin standard serum (1000 AU)
Presentation	Preparation: Freeze-dried, undiluted pooled human serum Content: Mannan-binding lectin (MBL), 1000 arbitrary units (AU) Solvent: None Storage: -18 °C or colder
Preparation	All individual sera and the serum pool were tested negative for HbsAg and for antibodies against HIV-1, HIV-2 and HCV. Blood from 30 healthy donors was collected in flasks without anticoagulant and allowed to clot. Serum was collected after centrifugation and pooled in a 10-liter flask. After mixing, 1-ml aliquots of the serum were pipetted into 2-ml vials. Each vial was assigned an MBL content of 1000 AU (~ 1.8 µg/ml oligomerized MBL). The material was freeze-dried and the vials closed under vacuum.
Background	Human MBL ¹ is an opsonin, which activates the complement system ² on binding to microbial polysaccharides. Plasma concentrations of normally oligomerized MBL range from 0 to 7000 ng/ml and may be below 50 ng/ml in up to 12% of healthy Caucasian blood donors. Low plasma concentrations may be associated with an inherited opsonin defect ³ .
References	<ol style="list-style-type: none">1. Kawasaki N, Kawasaki T, Yamashina I (1983) Isolation and characterization of a mannan-binding protein from human serum. <i>J Biochem (Tokyo)</i> 94, 937-947.2. Turner MW (1998) Mannose-binding lectin (MBL) in health and disease. <i>Immunobiology</i> 199, 327-339.3. Garred P, Madsen HO, Kurtzhals JA, Lamm LU, Thiel S, Hey AS, Svejgaard A (1992) Diallelic polymorphism may explain variations of the blood concentration of mannan-binding protein in Eskimos, but not in black Africans. <i>Eur J Immunogenet</i> 19, 403-412.

Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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