

## PRODUCT DATA SHEET

### 3-4 WEEK RABBIT COMPLEMENT

**Product Codes**31061-0  
31061-1  
31061-3**Pack size:**1 mL  
10 mL  
100 mL**Description:**

*Complement is produced under controlled conditions from large pools of New Zealand White rabbits that are 21-28 days old. This provides a product that has low heterophile antibody activity for many applications, including use in bactericidal and opsonization assays.*

**Physical State:**

Frozen liquid

**Testing:**Hemolytic: Titer  $\geq$  1:16  
Endotoxin:  $\leq$  1.0 EU/mL  
Sterility: Passed, 14 day sterility testing  
Mycoplasma: Negative  
Viral: Negative**Packaging, shipping/storage:****Packaging**

1 mL: Glass vial; 10 mL and 100 mL: PETG bottle

**Storage Temperature**

-70 °C or below

**Shipping Conditions**

Dry ice

**Expiration**

Product quality is guaranteed to meet Pel-Freez Biologicals' specifications for 1 year from the date of receipt by the customer as long as the product is stored in accordance with the indicated storage conditions.

**Application Notes:**

Suitable for functional antibody assays (SBA-Serum Bactericidal Assay, MOPA/OPA-Multiplexed /Opsonophagocytic Killing Assay) for vaccine evaluation. Complement components are extremely heat-sensitive; for best results, thaw complement on ice or in a cold water bath (ideally thaw bottled complement under a stream of cold water -20°C); never thaw using warm or hot water. Single use aliquots may be made at this time and frozen at -70°C or below. Avoid multiple freeze-thaw cycles. When a working aliquot is thawed, do not re-freeze remaining complement, but discard it.

**References:**

Hirve S, Bavdekar A, Pandit A, Juvekar S, Patil M, Preziosi MP, Tang Y, Marchetti E, Martellet L, Findlow H, Elie C, Parulekar V, Plikaytis B, Borrow R, Carlone G, Kulkarni PS, Goel A, Suresh K, Beri S, Kapre S, Jadhav S, Preaud JM, Viviani S, LaForce FM. Immunogenicity and safety of a new meningococcal A conjugate vaccine in Indian children aged 2-10 years: a phase II/III double-blind randomized controlled trial. *Vaccine*. 2012 Oct 5;30(45):6456-60.

Romero-Steiner, S., C. E. Frasch, G. Carlone, R. A. Fleck, D. Goldblatt, and M. H. Nahm. 2006. Use of opsonophagocytosis for serological evaluation of pneumococcal vaccines. *Clin. Vaccine Immunol.* 13:165-169.

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Burton R.L., Nahm M.H.. *Clin Vaccine Immunol.* 2012 Jun;19(6):835-41. Development of a fourfold multiplexed opsonophagocytosis assay for pneumococcal antibodies against additional serotypes and discovery of serological subtypes in *Streptococcus pneumoniae* serotype 20.

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