



LIFECODES[®]

LIFECODES[®] RC (RC-5, RC-100, RC-A5, RC-A100, RC-DR5, RC-DR100) Rabbit Complement

Rabbit Serum Reagent used in Microlymphocytotoxicity Testing

REF	RC-5:	405509	5 mL	RUO	For Research Use Only. Not for use in diagnostic procedures.
	RC-100:	405464	100 mL		
	RC-A5:	405508	5 mL		
	RC-A100:	405463	100 mL		
	RC-DR5:	405507	5 mL		
	RC-DR100:	405465	100 mL		



INTENDED USE

For use as the complement reagent in a complement-dependent microlymphocytotoxicity assay. The reactivity of various lots of complement should be pre-tested by the laboratory using their specific methods and target cells.

SUMMARY/EXPLANATION

Rabbit Complement is prepared from healthy, 6-10 week old, rabbits. Pooled rabbit serum (500-800 rabbit pool) provides a solution to possible toxicity of any individual sera within the pool. A lot of complement needs to be titrated to determine the appropriate concentration to be used during laboratory testing.

- Store frozen bulk complement aliquots at $\leq -50^{\circ}\text{C}$, indefinitely.
- Thaw complement immediately prior to use and keep cold during testing. Discard the remainder of thawed aliquots promptly.

Complement was extensively studied in the 1970s. Several sources of complement were tested. Rabbit complement proved to be the best-suited source for complement when used in microlymphocytotoxicity testing. There are different methods that may be used to determine the appropriate dilution of complement.

The method of titration is laboratory dependent based on the type of testing performed in the laboratory.

CAUTION

Frequent freeze-thaw cycles must be avoided. Complement is heat-labile.

Dispose of according to local regulations.

INSTRUMENTS/EQUIPMENT

37°C Waterbath (Not included with reagent)
 $\leq -50^{\circ}\text{C}$ Freezer (Not included with reagent)

PROCEDURE

1. Thaw complement rapidly in a 37°C waterbath with gentle agitation.
2. Place thawed aliquot on ice while transferring to smaller clean vials. Keep complement cool during aliquoting.
3. Avoid foreign particles as they may activate the complement and weaken reactivity.
4. Store aliquots at $\leq -50^{\circ}\text{C}$.
5. All lots of complement should be pre-screened by the user laboratory to determine the level of reactivity and suitability for the specific target cells and methods employed. Aliquots should be assessed for potency at least annually.

REACTIVITY

Desired reactivity levels vary based on methods, targets, and previous reactivity standard.

STORAGE/HANDLING/SHIPPING

Rabbit complement is shipped frozen, on dry ice. Promptly store the frozen complement at $\leq -50^{\circ}\text{C}$, upon arrival.

REFERENCES

1. Rodey, C.E. HLA Beyond Tears 2000:75-77.
2. Cannady, W.G., Marin, S.L., Yunis, E.J., and Inbar, M.: Effects of Fresh Serum Obtained from Baby, Young, and Mature Rabbits on the Specificity and Cross-Reactivity of HLA Reactions: Transplant, Proc., 10:729-734, 1978.



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