



NIH AIDS Reagent Program

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DATA SHEET

Reagent: *Pneumocystis carinii* Genomic Library

Catalog Number: 1789

Lot Number: 1 Mar 18 1993

Release Category: A

Provided: 0.2 ml phage stock (10^{10} pfu/ml) in SM buffer. Suggested bacterial hosts are *E. coli* SURE or XL-1 Blue mrf^r (Stratagene).

Description: Poly (A)+ RNA was isolated from *P. carinii* trophozoites obtained from infected rats. This material was used to construct a cDNA library, which was cloned into the unidirectional Uni-Zap XR I phage vector as EcoRI-XhoI fragments. The frequency of the DHFR gene in this library is 0.013%.
P. carinii genomic DNA was partially digested with EcoRI, and the resulting 3-9 kb fragments were isolated by sucrose gradient fractionation and cloned into EcoRI digested arms of the λ ZAPII vector.

Special Characteristics: Contains more than 90% recombinant bacteriophage with an insert range of 2.9-10 kb and an average insert size of 6 kb. The λ ZAPII vector allows expression of fusion proteins under control of the lac promoter. Strand-specific RNA transcripts can be generated from the T3 and T7 promoters flanking the cloned sequences. Cloned fragments can be excised with helper phage and recircularized to generate subclones in the pBluescript SK- phagemid vector.
Source of DNA: Obtained from *P. carinii*-infected rats (provided by Dr. Marilyn Bartlett, Indiana University).

Recommended Storage: 4-8°C.

Contributor: DAIDS, NIAID. Produced by BioTechnology General.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: *Pneumocystis carinii* Genomic Library from the Division of AIDS, NIAID."

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

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