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(54) **METHOD FOR PREPARING
SINGLE-STRANDED DNA LIBRARIES**

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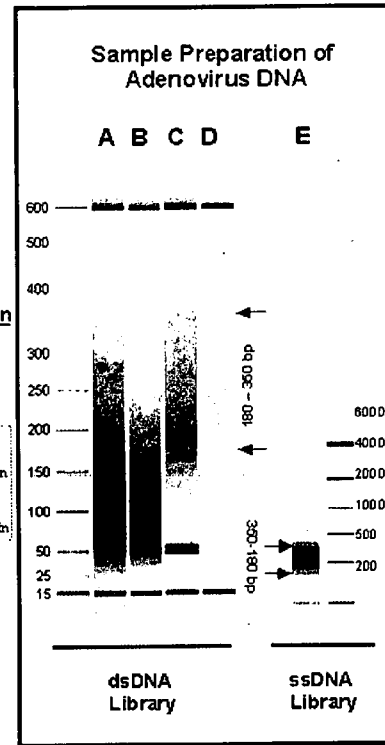
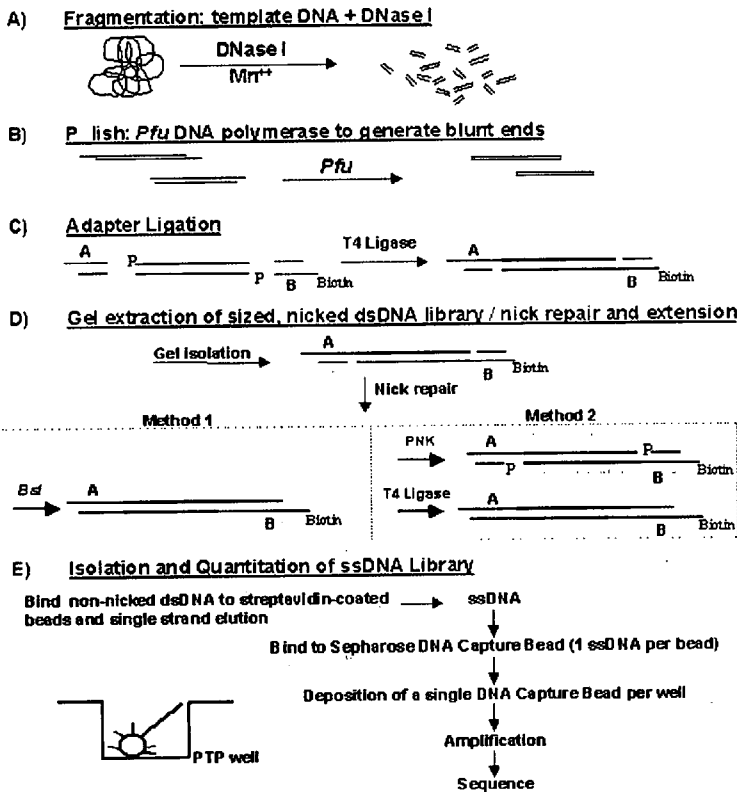
(57) **ABSTRACT**

Related U.S. Application Data

(60) Provisional application No. 60/443,471, filed on Jan.
29, 2003. Provisional application No. 60/465,071,
filed on Apr. 23, 2003. Provisional application No.

This invention relates to methods of generating single
stranded DNA libraries for use in amplification and sequenc-
ing reactions. In various aspects, the disclosed methods
include: fragmenting DNA; polishing the fragments' ends;
ligating the fragments to universal adaptors; performing
strand displacement and extension of the nicked fragments;
purifying the double-stranded ligation products; capturing
the double-stranded ligation products onto a solid support;
and isolating single stranded DNA library fragments, and
binding these fragments to another solid support.

Figure 1



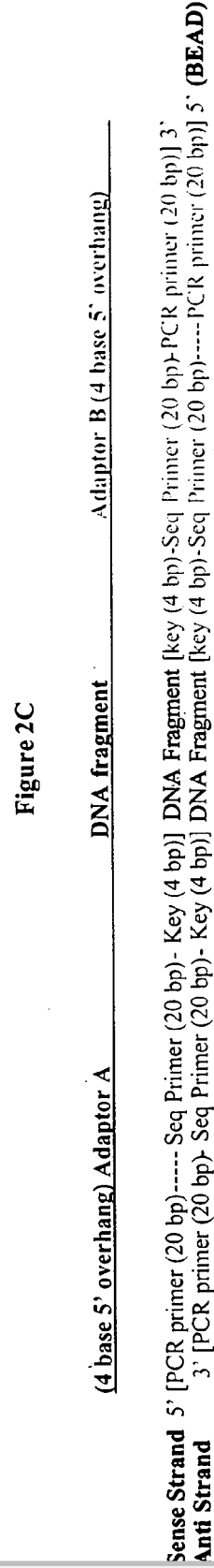
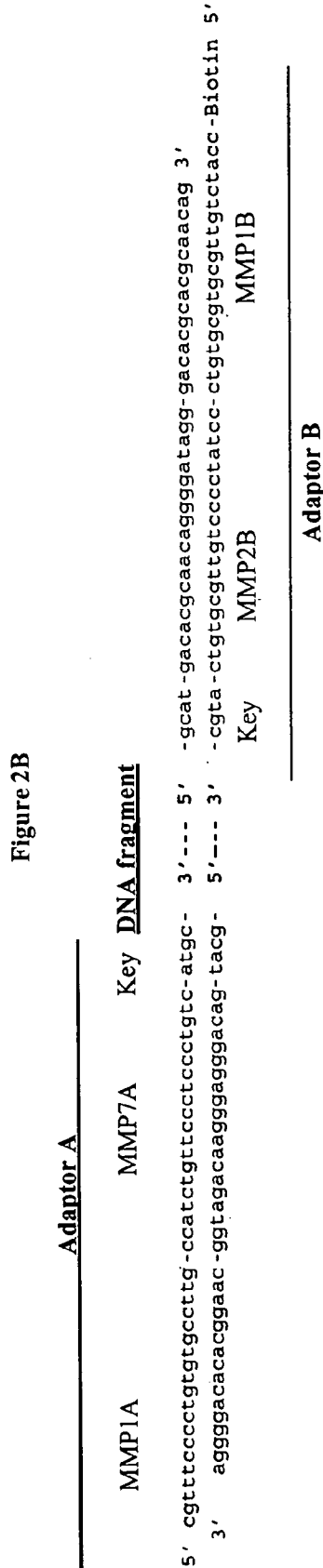
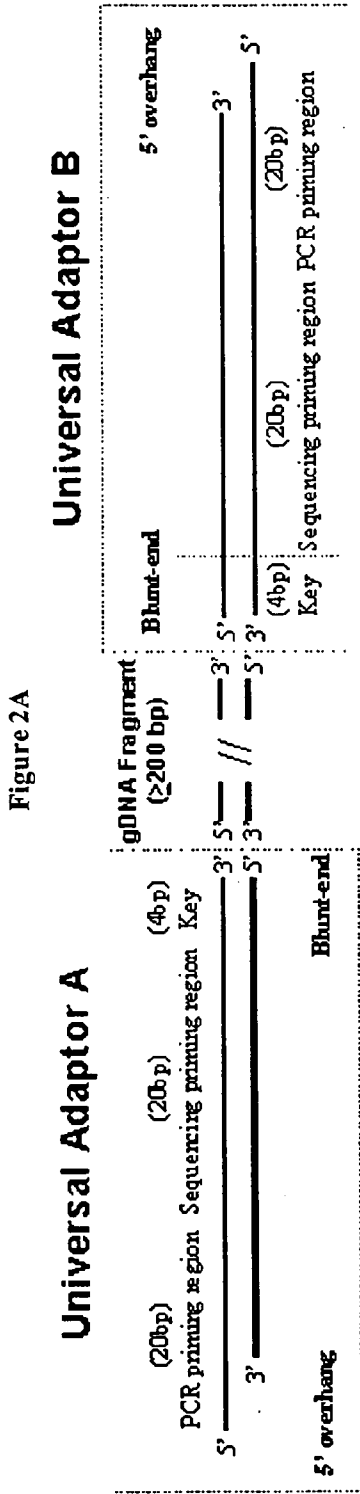


Figure 3

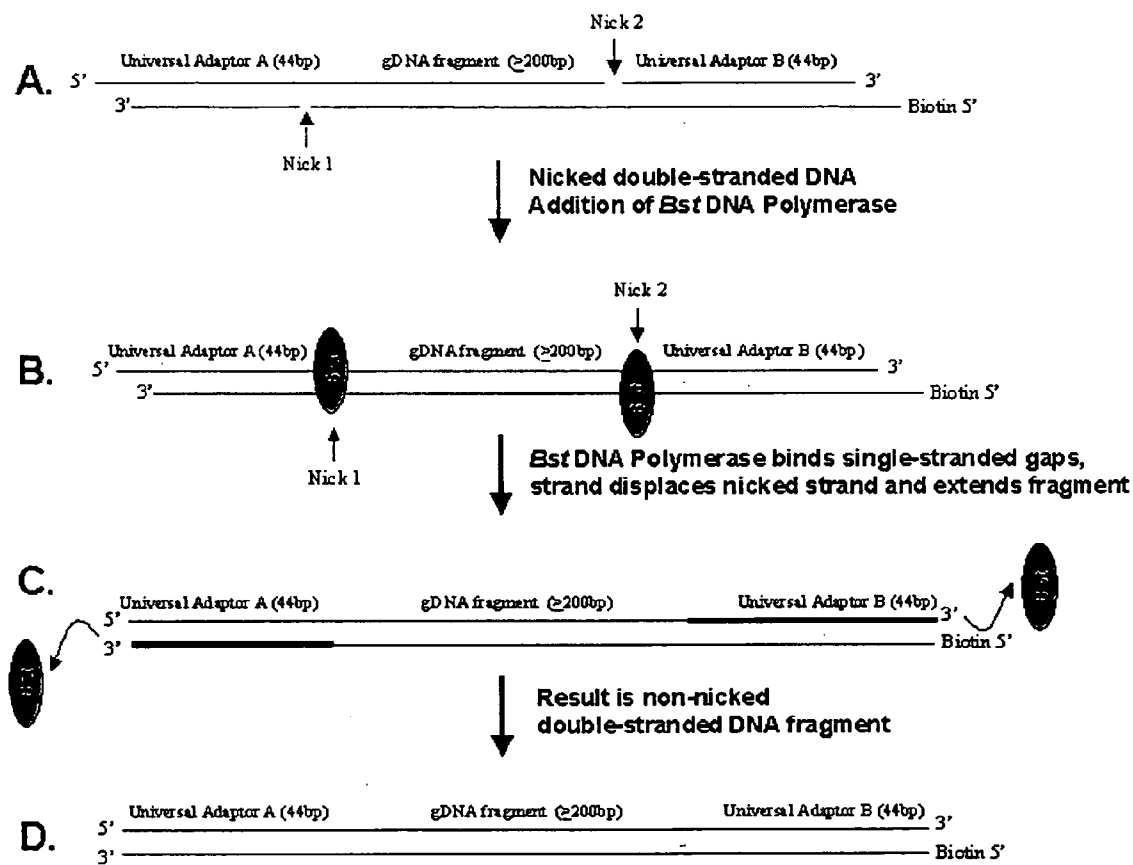
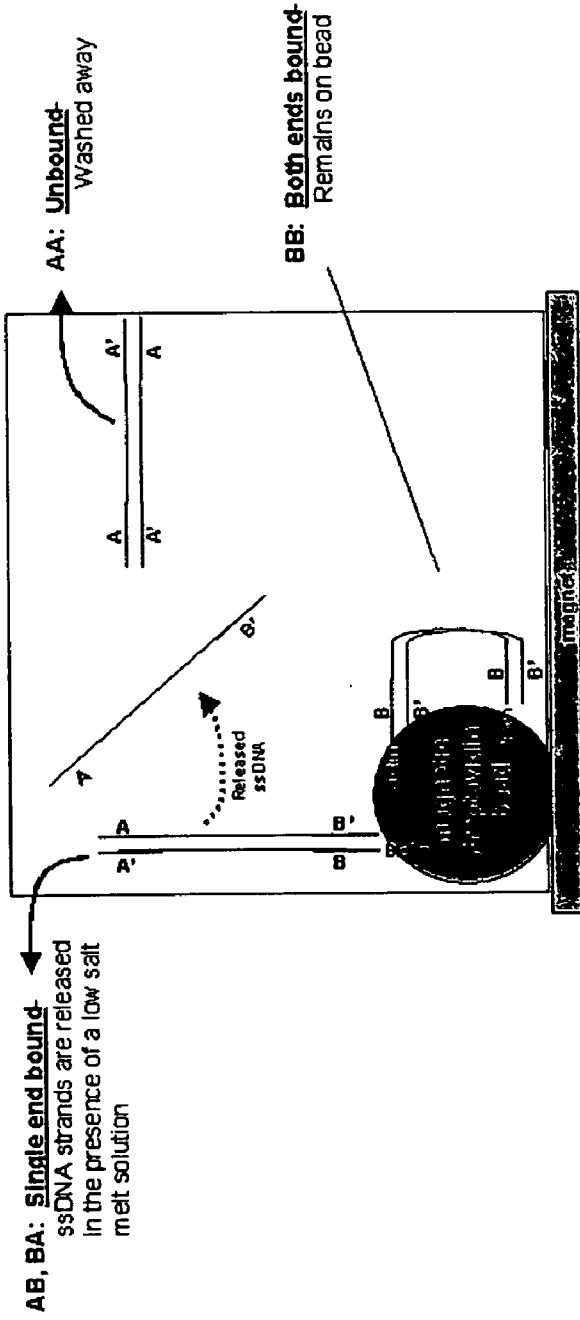
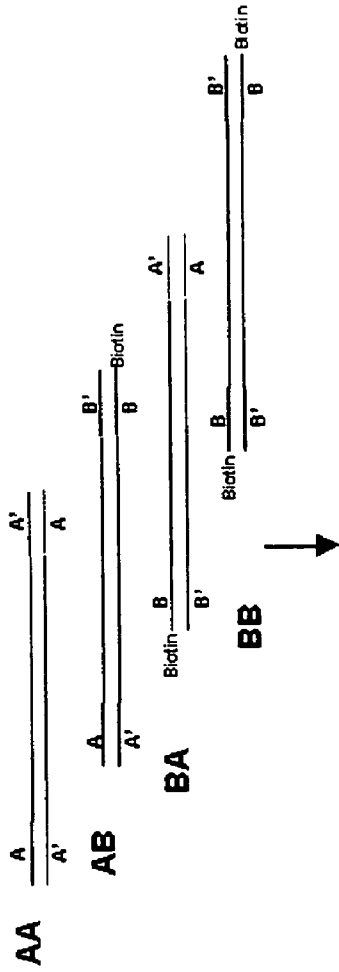


Figure 4

Possible double-stranded Genomic DNA Library Species:



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