





- 1) HepG2 total RNA are extracted by AGPC method minimizing the time in order to avoid random cleavage of RNA.
- 2) 3' and 5' RNA-DNA chimeric oligonucleotides are ligated to the short RNAs.
- 3) Removal of adaptor dimers by PAGE gel electrophoresis
- 4) Reverse transcriptase and 1st PCR cycle
- 5) The two main bands are separated by PAGE gel from non-specific products
- 6) 2nd PCR to amplify of DNA fragment
- 7) Short RNA tags are cut by using the restriction enzyme EcoRI
- 8) Short RNA tags are purification by PAGE gel and then concatenated
- 9) Concatemers are cloned into the p-ZeroII vector and transformed
- 10) sequence by using RISA system (Sanger based).