

Diagnostic Kit for common β - thalassemia mutations and abnormal hemoglobins by Reverse Dot Blot Hybridization

Salient Features of the technology:

- The kit has been developed based on Reverse Dot Blot Hybridization where 6 of the common β -thalassemia mutations along with the 2 common abnormal hemoglobins, Hb E and Hb S.
- It can be detected in a single PCR and hybridization protocol.
- This kit includes a pair of biotin labeled primers to amplify a fragment of the β -globin gene covering commonly occurring 8 mutations by PCR.
- It is quick and in a single day a large number of DNA samples can be analyzed for multiple mutation detection making the procedure user friendly, quick and inexpensive.
- An Indian patent has been granted.
- This technology has been developed by NIIH, Mumbai (an ICMR Institute).