PML-RARA GENE REARRANGEMENT, PCR QUALITATIVE

PML-RARA GENE REARRANGEMENT, PCR QUALITATIVE (Real Time PCR) PML – RARA Type bcr 1 PML - RARA Type bcr 2 PML – RARA Type bcr 3

Note:

1. Sensitivity of the assay is 0.01% when copies of ABL detected is 100,000
2. Limit of detection is 10 copies of PML-RARA fusion gene transcripts per PCR
3. This is an in-house developed assay designed as per EAC (Europe Against Cancer) protocol
4. This test detects 3 types of translocations – bcr 1, bcr 2 & bcr 3
5. Test conducted on Whole blood / Bone Marrow.

Comments

Acute Promyelocytic Leukemia (APL) is characterized by a unique reciprocal chromosomal translocation t (15; 17) (q22; q11-12) and its underlying fusion gene PML / RARA rearrangement. The fusion is seen between Promyleocytic (PML) gene on chromosome 15 and RARA gene on chromosome 17. Based on PML breakpoint location, the PML RARA transcripts subtype bcr 1 & bcr 2 (Long transcript type) and bcr 3 (Short transcript type) may be formed.

Uses

- For diagnostic identification of PML RARA in cases of Acute Promyelocytic Leukemia
- To assess molecular resistance & predict response to treatments containing ATRA and / or ATO