

REAL TIME PCR for BCR-ABL Screening *M,m,μ*

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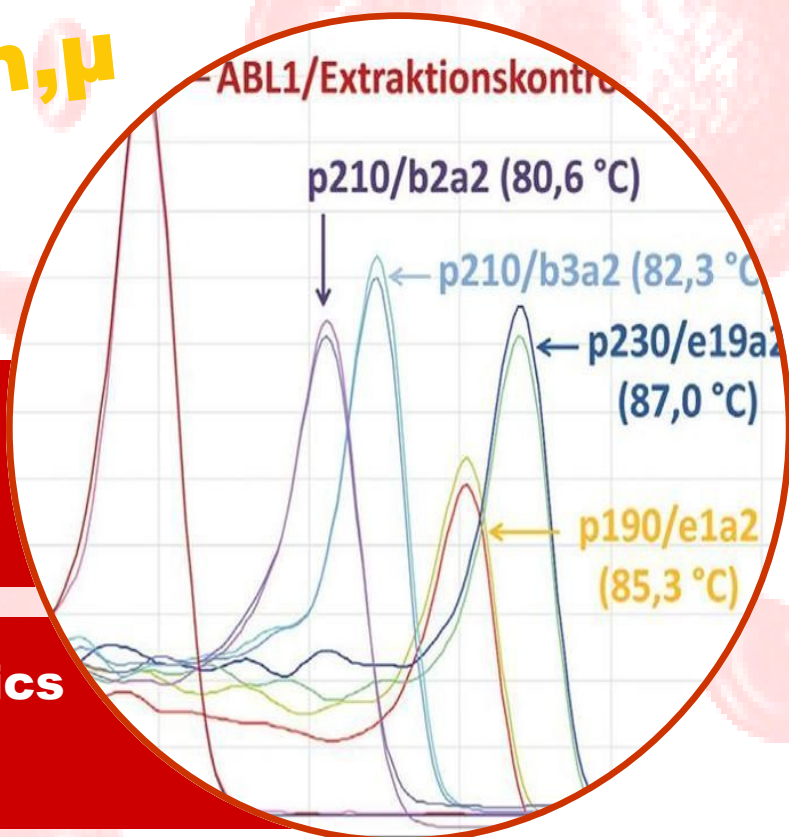


Bio Products

**BCR-ABL
Screening *M,m,μ***

One-Step Real Time PCR

**Optimal first line diagnostics
Successful therapy**



Leukemia represents a massive health problem. The fraction of chronic myeloid leukemia (CML) among all leukemia cases accounts for approximately 15%. In the United States, approximately 4900 new cases of CML are reported per year. The major part of CML

is characterized by the presence of the so-called Philadelphia chromosome (Ph). One of the most recent methods, which is applicable to over 95% of Ph⁺ of CML patients and which is based on the biomolecular detection of the BCR-ABL gene, is the Real-Time RT-PCR diagnostics.

BCR-ABL Introduction

The BCR-ABL Multiplex Screening Kit is a Real-Time PCR based kit for the qualitative detection of the four most frequent BCR-ABL1 translocations **p190 (e1a2)**, **p210 (b2a2 and b3a2)** and **p230 (e19a2)** in a single reaction and is therefore suited for the analysis of these BCR-ABL1 variants in specimens of patients with **CML (chronic myeloid leukemia)** as well as **ALL (acute lymphoblastic leukemia)**.

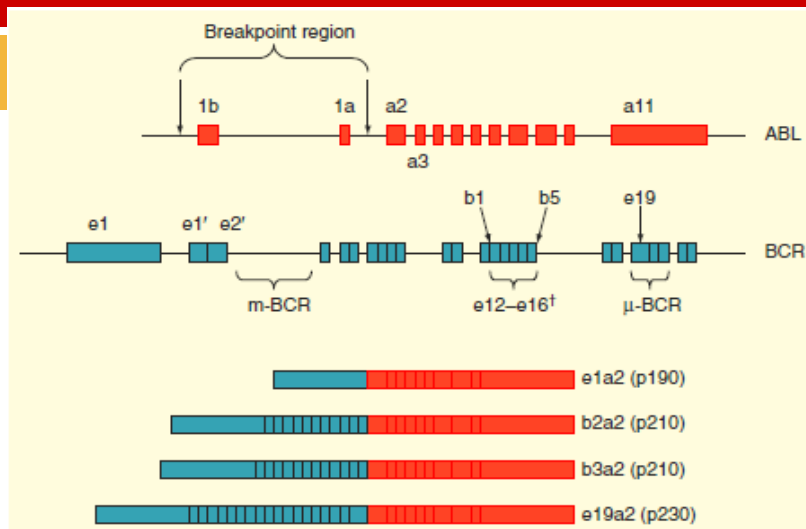


Fig. 1 The ABL and BCR gene and the four with the BCR-ABL1 Multiplex Kit identifiable fusion transcripts. Figure from [1].

Technical Information

Number of tests per package	24
Sample material	RNA isolated from bone marrow or anticoagulated whole blood.
Target regions	Transcripts of the four most frequent BCR-ABL1 fusion variants (see Fig. 1).
Method of detection	Detection of a present BCR-ABL1 translocation by a specific hydrolysis probe and identification of the break point variant by melt curve analysis (see Fig. 2).
Principle of the test	One-step RT-PCR; i. e. reverse transcription of RNA and PCR amplification in the same reaction tube.
Extraction control	Parallel detection of the ABL1 „house-keeping“ gene by a specific hydrolysis probe and by melt curve analysis.
Positive control	p210 (b3a2) and ABL1 DNA fragments.
Compatible Instruments	Common Real-Time PCR cycler equipped with FAM/SYBR, VIC/JOE/HEX and Cy5 fluorescence channels. Instruments with glass capillary system are not compatible.

BCR-ABL Multiplex Screening

Artikelbezeichnung	Cycler	Tests/Kit	Art.nr.
BCR-ABL1 Multiplex Kit	Commercial cycler equipped with FAM/SYBR, VIC/JOE/HEX and Cy5 fluorescence channels	24	BP101