

MicroSight[®] MSI

Easy One-Instrument Analysis of Microsatellite Instability

MicroSight[®] MSI is a new and simple way of characterizing microsatellite instability (MSI) status of tumors. The analysis takes less than 90 minutes, making it useful in treatment guidance. The analysis provides an unambiguous answer, completely objective, unbiased and independent on user-experience.

Fast and simple real-time PCR based analysis of microsatellite instability

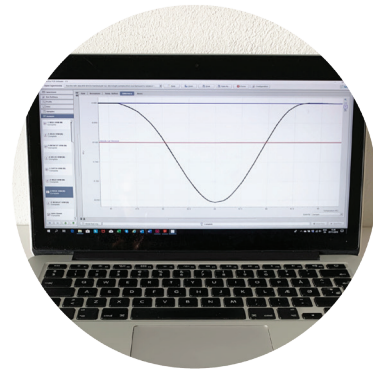
Purify DNA



Run PCR



Analyse data



MicroSight[®] MSI workflow. Only three fast and simple steps are needed for the analysis of microsatellite instability using PentaBase's MicroSight[®] MSI technology. The method is based on high-resolution melt analysis and gives a clear and reliable answer, providing unbiased results.

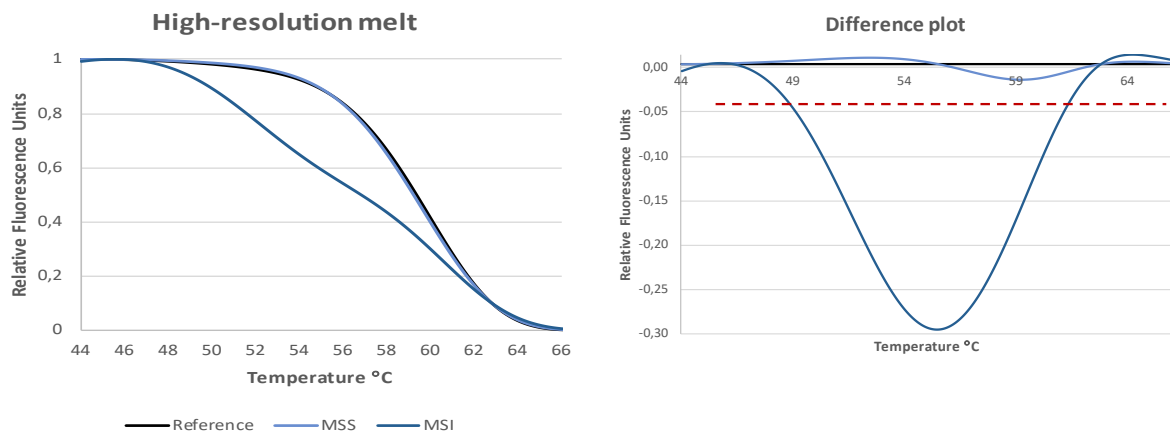
- Easy evaluation of microsatellite instability
- Completely unbiased analysis - provides a yes or no answer
- No trained staff needed
- Low-cost instrument



MicroSight[®] MSI

MicroSight[®] MSI relies on PentaBase's proprietary INA[®] technology that enables highly sensitive detection of microsatellite instability status. The method is based on high-resolution melt and runs on a single instrument, lowering hands-on time and duration of entire analysis. Evaluation of MSI-H status is performed on the basis of differences in melt curves of probes binding to the amplified microsatellites.

- 100% correlation with fragment analysis
- No inter-lab and inter-instrument variation
- Known loci - BAT25, BAT26, NR22, NR24 and MONO27
- Can be used with both paired samples and a universal reference



Data analysis of MSI and MSS tumors. The high-resolution melt graph (left) shows the melting curve. On the difference plot (right), the tumor is MSI if the red, dotted line is crossed by the difference graph.

Sensitive high-resolution melt analysis of MSI tumor status

PentaBase

PentaBase is a knowledge-based, ISO-certified real-time PCR focused company from 2006 founded and managed by researchers in Denmark. We have local *in-house* production of custom oligonucleotides based on our own proprietary DNA chemistry, known as Intercalating Nucleic Acid (INA[®]). We specialize in manufacturing of real-time PCR probes for IVD companies and development of *in vitro* diagnostic assays for real-time PCR with focus on detection of somatic mutations in cancer. For more than 10 years, we have created products for researchers and medical professionals exploring new treatments and helping patients worldwide.

