

Product Insert

Product Name

o MSS FFPE Control

Part No.: D186-000

o MSI-H FFPE Control

Part No.: D186-001

o MSI-H FFPE Control 2

Part No.: D186-002

Description

The MSI Controls are full-process reference materials designed for use with molecular assays that detect microsatellite instability (MSI). Each product contains 10 µm FFPE tissue slices embedded with cellular DNA exhibiting either microsatellite stable (MSS) status or microsatellite instability-high (MSI-H) status.

The MSI-H controls contain instability at clinically relevant microsatellite loci commonly used for MSI assessment, including: BAT25, BAT26, NR21, NR24, MONO27, ACVR2A, BTBD7, DDO1, MRE11, RYR3, SEC31A, SULF2, TGFBR2, BAX, RAD50, and CASP5.

The **MSI-H Control** contains approximately 16.7% MSI-H cells, prepared by mixing 100% MSI-H cells with microsatellite-stable (MSS) wild-type cells. This provides a challenging reference material for assay verification, sensitivity assessment, and routine quality control. The **MSI-H control 2** contains 100% MSI-H cellular content, providing a high-level positive control for assay verification and routine quality control.

Instruction for use

1. Allow the product vial to reach **room temperature** before use.
2. Process single or multiple curls using the **same extraction protocol** as for patient samples.

Expected Results

Each 10 µm FFPE curl typically contains:

- An average DNA yield of ≥200 ng
- MSI-H control: approximately 16.7% MSI-H cellular content
- MSI-H control 2: 100% MSI-H cellular content
- MSS control: microsatellite stable profile with no detectable MSI markers

Refer to the product's **Certificate of Analysis (CoA)** for exact values.

Storage

- Store at **2–8°C** or lower for optimal DNA stability.
- Shelf life: **2 years** from the date of manufacture when stored under recommended conditions.

Quality Control

1. DNA quantity is measured using the **DeNovix High Sensitivity DNA Assay**.
2. The percentage of MSI cellular content in the **MSI-H control** is determined by **droplet digital PCR (ddPCR)**.

FOR RESEARCH USE ONLY

info@anchormolecular.com

Tel: 1-925-989-9983

Fax: 1-925-848-3858