



TECHNICAL SHEET IDYLLA™ MSI TEST

The **Idylla™ MSI Test**, for use on the Idylla[™] System, uses formalin-fixed, paraffin-embedded (FFPE) tissue sections of human CRC tumor, from which nucleic acids are liberated, then analyzed using PCR amplification of **seven monomorphic biomarkers** (ACVR2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A and SULF2) and subsequent melt-curve analysis. The Idylla[™] MSI Test reports results as either microsatellite stable (MSS), or microsatellite instability high (MSI-H) or invalid.

The Idylla[™] MSI Test is indicated for use by healthcare professionals for the qualitative identification of microsatellite instability (MSI) in colorectal cancer (CRC) tumors, indicative of mismatch repair deficiency, and as an aid in the identification of probable Lynch syndrome to help identify patients that would benefit from additional genetic testing to diagnose Lynch syndrome.

The results from the Idylla[™] MSI Test should be interpreted by healthcare professionals in conjunction with other clinical findings, family history, and other laboratory data. The Idylla[™] MSI Test should not be used for diagnosis of CRC.

The clinical performance of this device to guide treatment decision for MSI high patients has not been established.

FEATURES

| Idylla™ MSI Biomarkers | | | | | | | | | |
|---------------------------------|---|---|--|--------------------------------------|---|-------------------------------|--------------------------------------|--------------------|-----------------------|
| ACVR2A | DID01 | RYR3 | SULF | 2 | BTBD7 | | MRE11 | | SEC31A |
| Sample Processing Control | The MSI specific presence of spec eliminates the ne | software will au ific PCR amplice eed for an additi | utomatically c cons will result ional sample (| heck the v in bioma processing | validity of th rker-specific g control in 1 | e meas fluore: the cart | ured fluore scence pro tridge. | esceno files, v | ce profiles: which |

| Specimen requirements | |
|-----------------------|---|
| Sample type | FFPE tissue sections (4-10 µm) |
| Neoplastic cells | \geq 33%, if less, macro-dissection is required |
| Tissue area | 62.5–750 mm² (4 μm) 50–600 mm² (5 μm) |
| | 25-300 mm² (10 µm) |

Total turnaround time

Time

Approximately 150 minutes

| Performance | | | | |
|--|---|--|--|--|
| Clinical sensitivity, 33% neoplastic cell content | 30% LoD | | | |
| Between Laboratory Reproducibility (252 results at 3 sites) | 100% agreement for an MSS sample at approximately 125,000 and 500,000 cells/slice | | | |
| Between Lot Reproducibility (240 results on 3 lots) | 100% agreement for an MSI-H sample at approximately 125,000 and 500,000 cells/slice | | | |

ACCURACY - CLINICAL PERFORMANCE EVALUATION

Overall percent agreement with OncoMate[™] MSI Dx Analysis System and Germline NGS of respectively 98.57% and 90.22%.

| 98.57% overall concordance with OncoMate™ MSI Dx Analysis System (138/140) | | | | | | | |
|--|---------------|-----|---------|---------|-------|--|--|
| | OncoMate™ MSI | | | | | | |
| iuyiia misi test | MSI-H | MSS | INVALID | NO CALL | TOTAL | | |
| MSI-H | 31 | 1* | 0 | 3 | 35 | | |
| MSS | 1** | 107 | 0 | 0 | 108 | | |
| Invalid | 0 | 0 | 0 | 0 | 0 | | |
| Total | 32 | 108 | 0 | 3 | 143 | | |

* One (1) sample that tested MSS by Idylla™ MSI Test and MSI-H by the OncoMate™ MSI Dx Analysis System is a confirmed Lynch case by NGS.

** One (1) sample that tested MSI-H by Idylla™ MSI Test and MSS by the OncoMate™ MSI Dx Analysis System is a confirmed Lynch case by NGS.

90.22% overall concordance with Germline NGS (120/133)

| IdvIIa™ MSI Tost | Germline NGS | | | | | | |
|------------------|----------------|----------------|---------|-------|--|--|--|
| | Lynch positive | Lynch negative | INVALID | TOTAL | | | |
| MSI-H | 23 | 11 | 1 | 35 | | | |
| MSS | 2 | 97 | 9 | 108 | | | |
| Invalid | 0 | 0 | 0 | 0 | | | |
| Total | 25 | 108 | 10 | 143 | | | |

Catalog number

ldylla™ MSI Test (510(k))

A0160/6



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