

Multiplex Formalin Compromised DNA Reference Standard

IMPORTANT: Centrifuge tube prior to opening to prevent loss of product

| PRODUCT INFORMATION | |
|--------------------------|---|
| Catalog ID | HD803 |
| Batch ID | 37644 |
| Product Description | Quantitative Multiplex Formalin Compromised (Severe) Reference Standard |
| Date of Manufacture | 23-May-2019 |
| Manufacturing QMS Status | ISO 9001 |

| PROPERTIES | |
|--------------------|--|
| Quantity | 1 µg |
| Concentration | 50 ng/µL |
| Buffer | Tris-EDTA (10 mM Tris-HCl, 1 mM EDTA), pH 8.0 |
| Storage Conditions | +4°C |
| Use by | For the latest information on product shelf life, please visit our website: https://www.horizondiscovery.com/reference-standards/coa-information |

| CUSTOMER SUPPORT | |
|-------------------|--|
| Technical Support | technical@horizondiscovery.com |
| Customer Service | orders@horizondiscovery.com |

| ADDITIONAL INFORMATION | |
|------------------------|--|
| N/A | |

QUALITY CONTROL

Allele Frequency (AF) and Genotype: Droplet Digital™ PCR

| Gene | Variant | Copy Number (copies/μL) | | | Expected AF (%) | Actual AF (%) | Acceptance Criteria (%) | | Pass/Fail |
|--------|------------|-------------------------|-------|--------|-----------------|---------------|-------------------------|-------|-----------|
| | | WT | Mut | Total | | | Low | High | |
| BRAF | V600E | 117.50 | 16.20 | 133.70 | 10.5 | 12.10 | 7.40 | 13.70 | PASS |
| KIT | D816V | 189.00 | 22.60 | 211.60 | 10.0 | 10.70 | 7.00 | 13.00 | PASS |
| EGFR | ΔE746-A750 | 230.00 | 5.50 | 235.50 | 2.0 | 2.34 | 1.20 | 2.80 | PASS |
| EGFR | L858R | 581.00 | 20.50 | 601.50 | 3.0 | 3.41 | 1.80 | 4.20 | PASS |
| EGFR | T790M | 419.00 | 4.70 | 423.70 | 1.0 | 1.12 | 0.60 | 1.40 | PASS |
| EGFR | G719S | 276.00 | 91.20 | 367.20 | 24.5 | 24.80 | 19.60 | 29.40 | PASS |
| KRAS | G13D | 183.10 | 37.60 | 220.70 | 15.0 | 17.00 | 10.50 | 19.50 | PASS |
| KRAS | G12D | 288.00 | 21.30 | 309.30 | 6.0 | 6.90 | 4.20 | 7.80 | PASS |
| NRAS | Q61K | 326.00 | 47.40 | 373.40 | 12.5 | 12.70 | 8.80 | 16.30 | PASS |
| PIK3CA | H1047R | 185.00 | 42.80 | 227.80 | 17.5 | 18.80 | 12.30 | 22.80 | PASS |
| PIK3CA | E545K | 271.00 | 25.30 | 296.30 | 9.0 | 8.50 | 6.30 | 11.70 | PASS |

Quantification: Qubit® dsDNA BR assay (Invitrogen)

| Acceptance Criteria | Reading | Pass/Fail |
|---------------------|------------|-----------|
| 45-55 ng/μL | 51.47ng/μL | PASS |

Fragmentation: D1000 DNA ScreenTape assay (Agilent Tech) TapeStation software version A.02.02

| Acceptance Criteria | Reading | Pass/Fail |
|---------------------|---------|-----------|
| DIN ≤ 2.0 | 1.8 | PASS |

FOR RESEARCH USE ONLY

Manufactured in the UK

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