

Manufacturing Quality

ISO 9001:2015

ISO 13485:2016

## Certificate of Analysis

Onco-Ref™ Genomic DNA Reference Standard NRAS c.37G>C p.G13R  
 COSM569

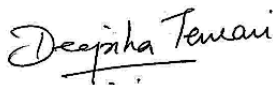
### Product Information

|                              |  |
|------------------------------|--|
| <b>Catalog Number:</b>       | ASE-6069G-1  |
| <b>Lot Number:</b>           | E6069G291613-1   |
| <b>Expiration Date:</b>      | 2020-05-01   |
| <b>Quantity/Volume/Size:</b> | 1 µg / 20 µl / 1 vial  |
| <b>Gene Name:</b>            | NRAS   |
| <b>Nucleotide Change:</b>    | c.37G>C  |
| <b>Amino Acid Change:</b>    | p.G13R   |
| <b>Mutation Id:</b>          | COSM569  |
| <b>Cell:</b>                 | HCT116   |
| <b>Storage Temperature:</b>  | -20°C  |
| <b>Shipping Temperature:</b> | Ambient  |
| <b>Instructions for Use:</b> | Refer to product Datasheet (Available <a href="http://www.accuref.com">www.accuref.com</a> ) |
| <b>Intended Use:</b>         | Research Use Only. Not Intended for human or animal diagnostic or therapeutic use.           |

### Quality Control

| Test                  | Method                | Acceptance Criteria | Result |
|-----------------------|-----------------------|---------------------|--------|
| <b>Genotyping</b>     | Sanger Sequencing     | Homozygous          | PASS   |
| <b>Quality</b>        | Gel Electrophoresis   | No Smear            | PASS   |
| <b>Quantification</b> | Qubit 4.0 Fluorometer | 50 -60 ng /µl       | PASS   |

AccuRef Diagnostics certifies that this standard meets the specifications stated in this certificate and warrants this product to meet the stated acceptance criteria through the expiration date when stored unopened as recommended.

|   |                   |
|---|-------------------|
|  | <b>2018-10-15</b> |
| <b>Quality Assurance</b>  | <b>Date</b>       |

COA-ASE-6069G-1-V2