

Manufacturing Quality

ISO 9001:2015

ISO 13485:2016

## Certificate of Analysis

**Onco-Ref™ FFPE Cell Scroll Reference Standard NRAS c.34G>T p.G12C  
COSM562**

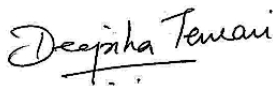
### Product Information

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b>       | ASE-6067S                                                                                    |
| <b>Lot Number:</b>           | E6067S180711                                                                                 |
| <b>Expiration Date:</b>      | 2021-06-11                                                                                   |
| <b>Quantity/Volume/Size:</b> | 20 µm section with a 7.0 mm diameter cell pellet core / 1 scroll                             |
| <b>Gene Name:</b>            | NRAS                                                                                         |
| <b>Nucleotide Change:</b>    | c.34G>T                                                                                      |
| <b>Amino Acid Change:</b>    | p.G12C                                                                                       |
| <b>Mutation Id:</b>          | COSM562                                                                                      |
| <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 (H&amp;E)</b> | H&E Staining      | Stain Quality       | PASS   |
| <b>Cell Density</b>      | Visual            | >60%                | 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>2018-12-11</b> |
| <b>Quality Assurance</b>                                                            | <b>Date</b>       |

COA-ASE-6067S-V1