

**Product:** rhAmp Reporter Mix with Reference, 250  $\mu$ L

**Product number:** 1076021

**Batch number:** 0000488452

**Expiration date:** 2020-JUL-22

*rhAmp Reporter Mix with Reference is optimized for use with rhAmp Genotyping Master Mix and rhAmp SNP Assays. The formulation includes proprietary reporter-dye-labeled oligonucleotide probes and a passive reference dye for assessing allelic discrimination on select instrument platforms.*

| Analytical testing                         |                                                                      |         |
|--------------------------------------------|----------------------------------------------------------------------|---------|
| Test                                       | Specification                                                        | Results |
| Molecular weight by ESI                    | $\pm 2.8$ Da of target mass of each reporter probe and primer in mix | Pass    |
| Reporter probe concentration by RP-HPLC    | $\pm 10\%$ of target concentration of each reporter probe in mix     | Pass    |
| Passive reference concentration by RP-HPLC | $\pm 15\%$ of target concentration of passive reference in mix       | Pass    |

#### Analytical test methods:

**Molecular weight** (MW) of the individual components of the mix is assessed after formulation and verified by ESI (electrospray ionization).

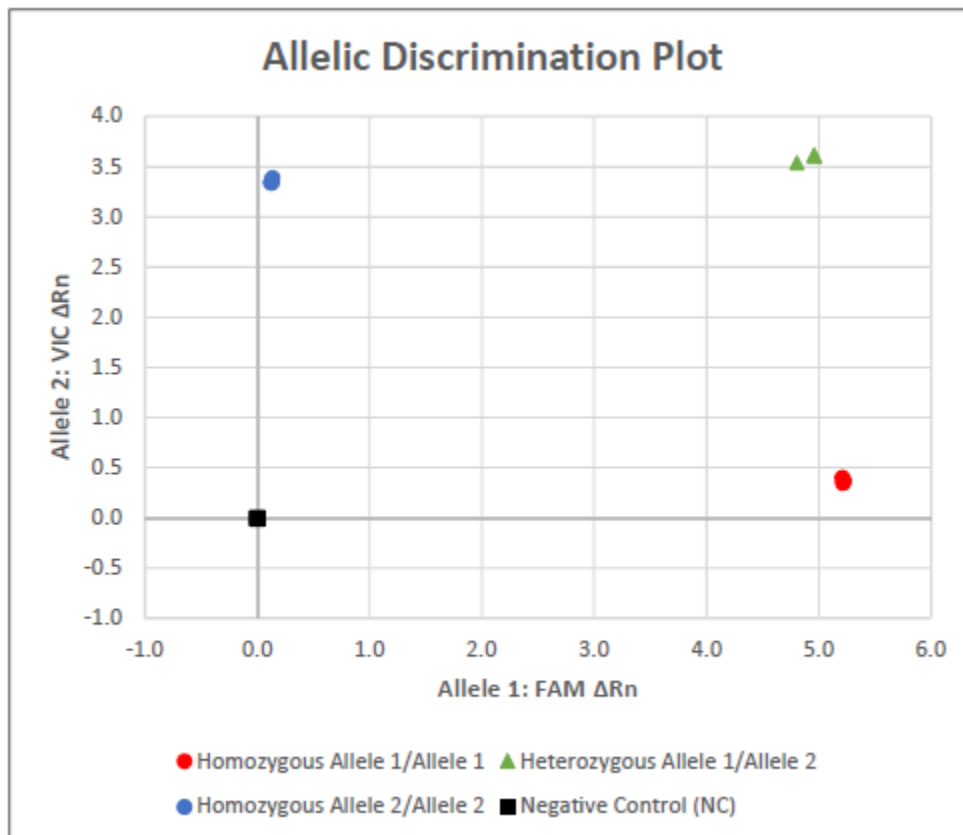
**Concentration** of each individual oligo within the mix is analyzed by a proprietary RP-HPLC method.

### Functional testing

*rhAmp Reporter Mix with Reference is tested for allelic discrimination performance using rhAmp Genotyping Master Mix and a rhAmp SNP Assay targeting 1000 copies of double-stranded gBlocks Gene Fragment template. PCR cycling and analysis is performed using the QuantStudio™ 7 Flex Real-Time PCR System (Thermo Fisher Scientific).*

| Test                   | Result |
|------------------------|--------|
| Allelic discrimination | Pass   |

### Allelic discrimination plot



**Storage:** Store rhAmp Reporter Mix with Reference in a sealed container at  $-20^{\circ}\text{C}$ , protected from light.

**Verified by:** Jacob Petrzela

**Quality release date:** 2019-DEC-10

rhAmp Reporter Mix with Reference contains oligonucleotide probes with proprietary modifications from multiple sources, including IDT, and is sold under license from IDT, Exiqon A/S, and Elitech, for customer research purposes only. For further information, see [www.idtdna.com](http://www.idtdna.com).

IDT verifies that the information contained herein is true and correct to the best of our knowledge. This document was produced electronically and is valid without signature.

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