

Technical Product Report

For Research Use Only; Not for use in Diagnostic Procedures

Product Description:

Seraseg® Cardiomyopathy Reference Material

Material Number:

0740-0021

Batch Number:

10671719

Material Description:

This purified DNA product combines ten variants in a well-characterized genomic background at a 50% target allele frequency. It is a reference

material for targeted NGS assays and can be used for assay

development, analytical validation or routine assay QC.

Date of Manufacture:

23 JUN 2023

Expiration Date:

03 APR 2026

Concentration (Qubit dsDNA BR Assay):

Nominal: 50 ng/µL

Actual: 51 ng/µL

Fill Volume:

200 µL

Test Method for Allele

Frequency:

Digital PCR was used to verify the biosynthetic mutant sequences were mixed with wild type genomic DNA at approximately 50% variant allele

frequency.

Measured Variant Allele

Frequency:

47%

A biosynthetic construct bearing variants of interest for cardiomyopathy Test Method:

were sequenced bidirectionally using Sanger technology to verify

mutations.

Name	Mutation Type	Sanger Sequence Verified
MYBPC3 c.1504C>T	SNV	Pass
MYBPC3 c.2373_2374insG	Small insertion	Pass
MYBPC3 c.3628-41_3628-17del	Large Deletion (in repetitive region)	Pass
MYH7 c.1988G>A	SNV	Pass
MYH7 c.1357C>T	SNV	Pass
MYH7 c.1750G>C	SNV	Pass
TNNI3 c.532_534delAAG	Small Deletion	Pass
TNNI3 c.575G>A	SNV	Pass
TNNT2 c.487_489delGAG	Deletion in highly repetitive region	Pass
TPM1 c.574G>A	SNV	Pass

Approval:

Prepared By

14 JUL 2023

Date