

Seraseq® PGT-A Reference Materials

ASSAY VALIDATION AND DAILY-RUN QC MATERIAL FOR PRE-IMPLANTATION GENETIC TESTING (PGT-A)

HIGHLIGHTS

SINGLE-VIAL FORMAT OF GENOMIC DNA IN BUFFER AT CONCENTRATION SUITABLE FOR PGT-A ASSAYS

UNIQUE ANEUPLOIDY REFERENCE MATERIALS FOR COMMON TRISOMIES, PGT-A-TESTED MATERIALS ASSURING PLOIDY.

HIGH-QUALITY MANUFACTURED REFERENCE MATERIAL SAVES TIME AND COST PROCURING SAMPLES OR PRODUCING HOMEBREW REAGENTS WITH SPECIFIC VARIANTS

INTRODUCTION

Pre-implantation Genetic Testing (PGT) is a genetic test performed on embryos produced by in vitro fertilization (IVF). The aim of the testing, also referred to as preimplantation genetic screening (PGS), is to screen embryos for genetic anomalies and improve the odds of a successful pregnancy¹. PGT for chromosomal aneuploidies (PGT-A) is the most commonly used screening method.

LGC SeraCare offers PGT-A reference materials for the most common trisomies - 21, 18, 13 along with euploid material which can be used as a negative control.

Product Benefits

- Ideal for introduction to the PGT-A workflow at the WGA (amplification) step
- Can be used for PGT-A assay development, validation or routine QC
- Compatible with NGS as well as array-based PGT-A assays
- Save time, cost and increase QC consistency with these conveniently formatted reference materials
- Eliminate the need to find, source and maintain remnant samples

Product Features

- Collection of common chromosomal aneuploidies – trisomy 21, 18 and 13 as well as Euploid
- Formulated as genomic DNA from confirmed trisomic cells in buffer
- Ability to create mosaicism samples by blending aneuploidy and euploid samples
- Offered at a concentration suitable for PGT-A
- Ensure lot-to-lot consistency with materials manufactured in GMP-compliant and ISO 13485-certified facilities

Product Design:

Seraseq PGT-A Reference Materials are produced from gDNA extracted from a fetal source sample (Figure 1) with confirmed Trisomy (or Euploid status) and provided in a 1 mM Tris / 0.1 mM EDTA pH 8.0 buffer.

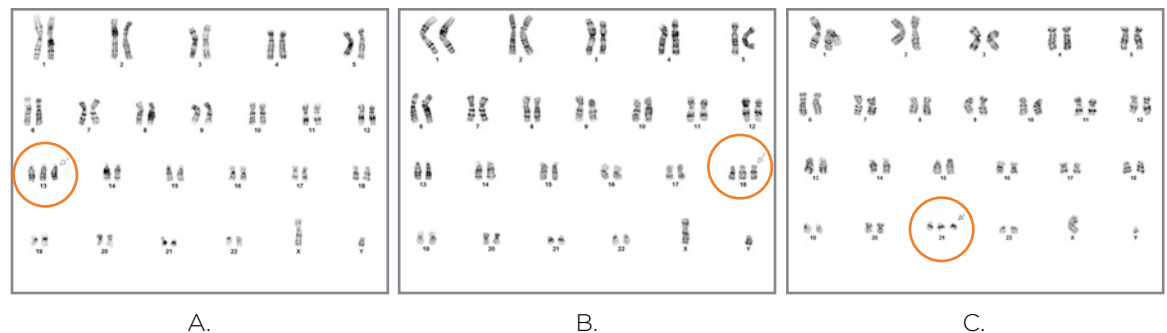


Figure 1.: Karyotypes of the source cells. A. Trisomy 13, B. Trisomy 18 and C. Trisomy 21.

ABOUT SERACARE

TRUSTED SUPPLIER
TO THE DIAGNOSTIC
TESTING INDUSTRY
FOR OVER 30 YEARS

HIGH-QUALITY
CONTROL PRODUCTS,
RAW BIOLOGICAL
MATERIALS, AND
IMMUNOASSAY
REAGENTS.

INNOVATIVE TOOLS
AND TECHNOLOGIES
TO PROVIDE
ASSURANCE IN
DIAGNOSTIC ASSAY
PERFORMANCE AND
TEST RESULTS

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The materials were tested for performance in NGS-based PGT-A assays (Figure 2).

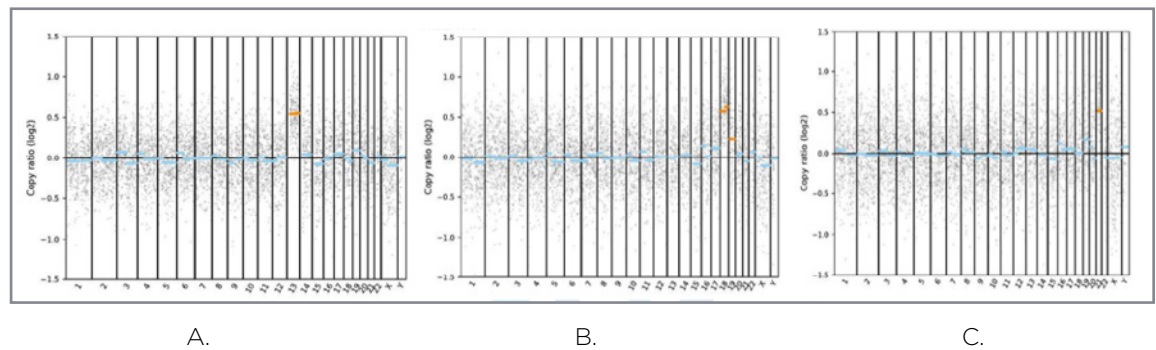


Figure 2. Performance in an NGS PGT-A assay. A. Trisomy 13, B. Trisomy 18 and C. Trisomy 21.

RELIABLE, CONSISTENT REFERENCE MATERIAL

As a manufactured control reference material, developed under cGMP compliance in ISO 13485 certified facilities, Seraseq PGT-A Reference Materials provide a consistent source of reference material for your PGT assay. This not only ensures a reliable supply which is consistent from lot-to-lot; it also eliminates the need to obtain, characterize, blend, and document your own mixes of cell lines, saving you time and resources in your assay development and validation efforts. Not for In Vitro Diagnostic Use. Research Use Only.

ORDERING INFORMATION

PGT-A REFERENCE MATERIALS		
Material #	Product	Fill Size
0720-0775	Seraseq® PGT-A Trisomy 21 Reference Material	1 vial x 10 uL
0720-0776	Seraseq® PGT-A Trisomy 18 Reference Material	1 vial x 10 uL
0720-0777	Seraseq® PGT-A Trisomy 13 Reference Material	1 vial x 10 uL
0720-0778	Seraseq® PGT-A Euploid Reference Material	1 vial x 10 uL

CUSTOM PGT-A MATERIALS	
The above products can be customized with regard to concentration, volume or blending to create mosaicism samples. Please contact SeraCare for customization options.	1 vial x 10 uL

LEARN MORE

To learn more about Seraseq PGT-A Reference Materials and SeraCare's product offering for reproductive health, visit <https://www.seracare.com/Controls---Reference-Materials-NGS-Reproductive-Health/>.

Contact us at 508.244.6400 and 800.676.1881 or email info@seracare.com.

REFERENCES

1. Fesahat F, Montazeri F, and Hoseini S. Preimplantation genetic testing in assisted reproduction technology. J Gynecol Obstet Hum Reprod, (2020), 49(5), 101723

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