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# Certificate of Analysis

## Product Name:

- Genomic DNA
- Small Size Genomic DNA
- Human Tumor Genomic DNA Matched Pair (PP/PM)
- 96 Well Genomic DNA Plate
- Control Genomic DNA
- FFPE Genomic DNA
- FFPE Genomic DNA Matched Pair

Catalog No.: D1xxxxxx  
Catalog No.: D4xxxxxx  
Catalog No.: D8235xxx-PP/PM  
Catalog No.: D8xxxxxx  
Catalog No.: D1X34999-G01/G02  
Catalog No.: D2xxxxxx  
Catalog No.: D8234(/5)XXX-FP

**Storage Condition:** 2-8°C for short term, -20°C for long term

**Shipping Condition:** Blue Ice. Dry ice for 96 well Genomic DNA Plate

**Shelf Life:** One year from the date of receipt under proper storage condition. 96 Well Plate should be used within 2 months from the date of receipt.

## Description

- **Genomic DNA / Small Size Genomic DNA.** DNA is isolated by proprietary modified guanidine thiocyanate techniques. The DNA is dissolved in 1xTE (10 mM Tris pH 8.0, 1 mM EDTA) buffer.
- **Human Tumor Genomic DNA Matched Pair.** Products include: Primary Pair (PP), or Primary and metastatic Pair (PM). PP consists of a pair of genomic DNA isolated from primary tumor and its adjacent normal tissue; PM consists of a pair of genomic DNA from primary tumor and corresponding metastatic tumor. Genomic DNA in each pair is prepared from the same donor. This product line is designed for identifying tumor-specific genes and tumor metastatic genes.
- **96 Well Genomic DNA Plate.** Genomic DNAs are extracted from same kind of tissues from as many as 96 individual donors. The genomic DNA is extracted and purified using Biochain's proprietary techniques that yield high molecular weight material, as verified by agarose gel electrophoresis. Biochain's 96 Well Genomic DNA Plates can be used as Reference Standard materials for gene expression research.
- **Control Genomic DNA** Control genomic DNAs are isolated from human and different animal species, Male and female genomic DNAs from each species are available.
- **FFPE Genomic DNA** FFPE DNAs are isolated from Formalin Fixed Paraffin Embedded materials.

## Quality Control

1. The quality and purity of genomic DNA were tested by spectrophotometer and electrophoresis.  $A_{260/280}$  is between 1.8 and 2.0,  $A_{260/230}$  is  $>2.0$ . (detected in 10 mM Tris-Cl, pH 7.5)
2. Plant genomic DNA concentration is determined by pico green measurement while other genomic DNA concentration is determined by  $UV_{260}$  measurement.
3. RNase treatment to ensure the RNA contamination is eliminated.
4. Hind III digestion test: genomic DNA was successfully digested by Hind III.
5.  $\beta$ -Actin expression was tested by PCR amplification for Genomic DNA or PCR ready genomic DNA.
6. GAPDH expression was tested by Real Time PCR for 96 well tumor genomic DNA plate.

**Note:** Though some of Small Size Genomic DNA can be used for southern blot analysis, we strongly recommend customers use our Genomic DNA product line for southern blot studies. All Biochain's plant and FFPE genomic DNA concentration was measured by pico green method to assure the true quantity. Due to the characteristics of plant and FFPE genomic DNA, the concentration measured by UV is about 4 to 40 times more than the true value.

**FOR IN VITRO RESEARCH USE ONLY**

**APPROVED BY** \_\_\_\_\_

