

## New England Biolabs Certificate of Analysis

**Product Name:** *HeLa Genomic DNA*  
**Catalog #:** *N4006S*  
**Concentration:** *100 µg/ml*  
**Unit Definition:** *N/A*  
**Lot #:** *0051708*  
**Assay Date:** *08/2017*  
**Expiration Date:** *8/2019*  
**Storage Temp:** *-20°C*  
**Storage Conditions:** *10 mM Tris-HCl, 1 mM EDTA, (pH 7.5 @ 25°C)*  
**Specification Version:** *PS-N4006S v1.0*  
**Effective Date:** *07 Jan 2016*

Assay Name/Specification (minimum release criteria)	Lot #0051708
<b>A260/A280 Assay</b> - The ratio of UV absorption of HeLa Genomic DNA at 260 and 280 nm is between 1.8 and 2.0.	<b>Pass</b>
<b>DNA Concentration (A260)</b> - The concentration of HeLa Genomic DNA is between 100 and 110 µg/ml as determined by UV absorption at 260 nm.	<b>Pass</b>
<b>Electrophoretic Pattern (Genomic DNA)</b> - The banding pattern of HeLa Genomic DNA on a 1.2% agarose gel is evaluated against a control lot for relative integrity and intensity as determined by gel electrophoresis using Ethidium Bromide.	<b>Pass</b>
<b>Non-Specific DNase Activity (Genomic DNA, 16 hour)</b> - A 50 µl reaction in 1X NEBuffer 2 containing 2.5 µg of HeLa Genomic DNA incubated for 16 hours at 37°C does not produce any further detectable nuclease degradation as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Restriction Digest (Genomic DNA)</b> - A 50 µl reaction in NEBuffer 2.1 containing 2.5 µg of HeLa Genomic DNA and 20 units of HindIII incubated for 1 hour at 37°C produces the expected fragmentation pattern as determined by agarose gel electrophoresis.	<b>Pass</b>



Authorized by  
Derek Robinson  
07 Jan 2016



Inspected by  
Vanessa Mathieu-Sheltry  
08 Aug 2017

