

## Certificate of Analysis

**Control Histones (+/- sodium butyrate)**  
 (HeLa cell acid extract)  
 Catalog # 17-305  
 Lot # DAM1588148

### Kit Components

**Control Histones, untreated, (HeLa cell acid extract)**, Catalog # 13-112. 10 vials, each vial containing **50µg** of precipitated core histones, lyophilized from sterile, distilled water. Lyophilized powder.

**Control Histones, sodium butyrate-treated, (HeLa cell acid extract)**, Catalog # 13-113. 10 vials, each vial containing **50µg** of precipitated core histones, lyophilized from sterile, distilled water. Lyophilized powder.

**FOR RESEARCH USE ONLY  
 NOT FOR USE IN HUMANS**

### Kit Description

**Product Description:** Core histones, including histone H1, purified by acid extraction precipitation from log phase of untreated and sodium butyrate-treated HeLa cells.

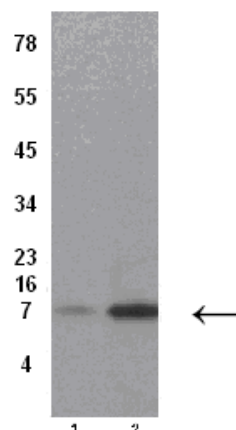
**Storage and Stability:** Lyophilized: Stable for 2 years at -20°C from date of shipment, when stored with provided desiccant. Reconstituted: Stable for 6 months at -70°C.

**Quantity:** 50 assays per kit.

**Rehydration:** Aseptically reconstitute to 1mg/ml with sterile, distilled water. Aliquot to avoid repeated freezing and thawing.

### Quality Control Testing

Immunoblot Analysis: Use 5-20µg per lane. 10µg of histones from untreated and sodium butyrate-treated HeLa cells were used as a positive control for immunoblot analysis using 1µg/ml anti-acetyl Histone H4 (Catalog # 06-598), 0.2µg/ml anti-acetyl-Histone H3 (Catalog # 06-599) and 1:4000 dilution of anti-hyperacetylated Histone H4 (Penta) (Catalog # 06-946).



**Immunoblot Analysis**  
 Representative lot data. 10µg Control Histones, untreated (lane1) or sodium butyrate-treated (lane 2), were resolved by electrophoresis, transferred to PVDF and probed with 2µg/ml anti-acetyl-Histone H4 (Catalog # 06-598). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates acetyl Histone H4 (10kDa).

### Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on **5-20µg Control Histones** and transfer the proteins to PVDF. Wash the blotted PVDF twice with water.
2. Block the blotted PVDF in freshly prepared PBS containing 3% nonfat dry milk (Catalog # 20-200), (PBS-MLK) for 20-30 minutes at room temperature with constant agitation.
3. Incubate the PVDF with an appropriate Histone-specific antibody, diluted in freshly prepared PBS-MLK overnight with agitation at 4°C.
4. Wash the PVDF twice with water.
5. Incubate the PVDF with the appropriate secondary reagent in PBS-MLK for 1.5 hours at room temperature with agitation.
6. Wash the PVDF with water twice.
7. Wash the PVDF in PBS-0.05% Tween 20 for 3-5 minutes.
8. Rinse the PVDF in 4-5 changes of water.
9. Use detection method of choice (enhanced chemiluminescence was used).

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

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