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## Certificate of Analysis

### Histone H3

(recombinant protein expressed in *E. coli*)

Catalog # 14-411

Lot # 32022

**Product Description:** Recombinant *Xenopus laevis* Histone H3 produced in *E. coli*, purified using HPLC. Mr 17kDa.

**Purity:** ≥90% pure as determined by SDS-PAGE of 1μg of this lot.

**Formulation:** 100μg of Histone H3 quantitated using the molar absorption coefficient (280nm) of 3900; lyophilized from 100μl of sterile, distilled water. Lyophilized powder.

**Storage and Stability:** Stable for 2 years at -20°C from date of shipment. Rehydrate with sterile, distilled water. After rehydration, aliquot to avoid repeated freezing and thawing.

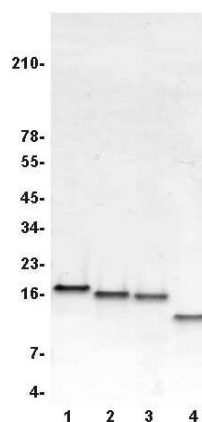
**FOR IN VITRO RESEARCH USE ONLY  
NOT FOR USE IN HUMANS OR ANIMALS**

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### Research Application

**Enzymatic Assay:** This lot of Histone H3 can be used as substrate for *in vitro* enzymatic reactions. Use 1μg per assay point.

**Immunoblot Analysis:** Identity of Histone H3 was confirmed by immunoblotting with a mouse monoclonal anti-Histone H3 (Catalog # 05-499). Catalog # 05-499 does not recognize histones H2A, H2B or H4.



**SDS-PAGE and Coomassie Stain:** Representative gel from a previous lot. Purity was assessed by SDS-PAGE and Coomassie blue staining using 1μg of Histone H3 (lane 1), Histone H2B (lane 2), Histone H2A (lane 3) and Histone H4 (lane 4).

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### Reference:

1. Luger, K., *et al.*, Nature **389**: 251-260, 1997.
2. Baluchamy, S., *et al.*, Proc. Natl. Acad. Sci. USA **100**: 9524-9, 2003.
3. Dey, A., *et al.*, Proc. Natl. Acad. Sci. USA **100**: 8758-63, 2003.
4. Tovich, P. R. and Oko, R. J., J. Biol. Chem. **278**: 32431-8, 2003.