



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	HIV-1 HXB2 Reverse Transcriptase (p66 E>Q/p51)
<b>Catalog Number:</b>	2897
<b>Lot Number:</b>	140228
<b>Provided:</b>	25 µg (1 mg/ml)
<b>Molecular Weight:</b>	117 kDa.
<b>Purity:</b>	>95%+ by Coomassie Blue and silver staining. Integrity determined immunologically with anti-RT antibodies. Specific activity ~30 units/µg, determined on poly(rA)/oligo(dT). One unit catalyzes incorporation of 1 nmole precursor into product in 10 minutes at 37°C.
<b>Special Characteristics:</b>	This enzyme carries a poly-histidine tag at the amino terminus of both p66 and p51. RNase H activity has been eliminated by replacing Glu478 of p66 with Gln. DNA polymerase activity remains unaffected. It can be used to study protein/nucleic acid interactions in the absence of RNase H activity. The protein was purified by a combination of metal chelate and ion exchange chromatography. Production: Produced in <i>E. coli</i> . Derived from HXB2-infected T cells. Non-glycosylated.
<b>Recommended Storage:</b>	-20°C.
<b>Contributor:</b>	Dr. Stuart Le Grice, Center For AIDS Research at Case Western Reserve University.
<b>References:</b>	Schatz O, et al. <i>FEBS Lett</i> <b>257</b> :311-314, 1989. Le Grice SFJ, Gruninger-Leitch F. <i>Eur J Biochem</i> <b>178</b> :307-314, 1990. Schatz O, et al. In: <i>Oncogenesis and AIDS</i> . TS Papas (Ed.), Portfolio, TX, pp. 293- 303, 1990. Ben-Artzi H, et al. <i>Nucleic Acids Res</i> <b>20</b> :5115-5118, 1992. Metzger W, et al. <i>Proc Natl Acad Sci USA</i> <b>90</b> :5909-5913, 1993. Gotthe M, et al. <i>EMBO J</i> <b>14</b> :833-841, 1995. Wohrl BM, et al. <i>Biochemistry</i> <b>34</b> :5343-5350, 1995. Le Grice SFJ, Cameron CE, Benkovic SJ. In: <i>Methods in Enzymology: DNA Replication</i> . JL Campbell (Ed.), Academic Press, NY, 1995. Cirino NM, et al. <i>Biochemistry</i> <b>34</b> :9936-9943, 1995.

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1<sub>HXB2</sub> Reverse Transcriptase (p66<sup>E>Q</sup>/p51) from Dr. Stuart Le Grice." Also include the references cited above in any publications.

**Limited to two aliquots per lab per year. Larger amounts can be obtained upon request from the contributor.**

**Last Updated:**

June 27, 2018

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