Epicentre's new HK-UNG is the only available Uracil N-Glycosylase that can be completely and irreversibly heat-inactivated.

HK-UNG is:

- Fully active to 50°C in digesting dU-containing DNA.
- Heat-Killed - by a 10 minute incubation at 65°C or higher.
- Irreversibly heat-inactivated - no activity was detected in reactions containing heat-inactivated HK-UNG that was incubated for 2 days at room temperature to promote renaturation.

Brief heat treatment of HK-UNG eliminates its ability to digest dU-containing DNA. One unit of HK-UNG or standard UNG from another supplier was incubated for 10 minutes at the indicated temperature. Following heat treatment, approximately 300 ng of a dU-containing, 450 bp DNA were added and the samples were incubated at 37°C for 30 minutes before analysis by gel electrophoresis. The presence of the 450 bp band in lanes 5 & 7 demonstrates that HK-UNG was inactivated at 70°C and above, unlike the standard UNG (lanes 6 & 8).

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COVER  In vivo detection of DNA sequencing variation. Transformation plates of the mismatch at position -49 of the mouse β-globin promoter. (Top) T/T, no mismatch, blues colonies; (bottom) T/C, mismatch with many white colonies. (For details, see Faham and Cox, p. 474.)