

3050 Spruce Street, Saint Louis, MO 63103, USA  
 Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)  
 Email USA: [techserv@sial.com](mailto:techserv@sial.com)  
 Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

Product Name:  
 KLENOW FRAGMENT, ULTRA-PURE ENZYME&

**Product Number:** KEM0031  
**Batch Number:** SLBH2795V  
 Brand: SIGMA  
 Storage Temperature: Store at -20 °C  
 Quality Release Date: 16 OCT 2013  
 Expiration Date: OCT 2014

Test	Specification	Result
Purity by SDS Page > 99%	Conforms	Conforms
Specific Activity		5000
Miscellaneous Supplier Data SS Exonuclease: Functional Meets or exceeds specification when a sample is incubated for 4 hours at 37 degrees celcius with 10,000 cpm radiolabeled single-stranded DNA substrate, resulting in > 50% release of TCA-soluble counts.	Conforms	Conforms
Miscellaneous Supplier Data DS Exonuclease: Functional Meets or exceeds specification when a sample is incubated for 4 hours at 37 degrees celcius with 5,000 cpm radiolabeled double-stranded DNA substrate, resulting in > 50% release of TCA-soluble counts.	Conforms	Conforms
Miscellaneous Supplier Data DS Endonuclease: None Detected Meets or exceeds specification when a sample is incubated for 4 hours at 37 degrees celcius with 0.5ug of pBR322 and analyzed by agarose electrophoresis.	Conforms	Conforms

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto:eurtechserv@sial.com)

## Certificate of Analysis

**Product Number:** KEM0031  
**Batch Number:** SLBH2795V

Test	Specification	Result
DNA Contamination E.coli None Detected < 10 copies genome/5uL enzyme solution	Conforms	Conforms



Rodney Burbach, Manager  
Analytical Services  
St. Louis, Missouri US

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