

Influenza A Virus H13 Primers

Catalog No. NR-15425

This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor:

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

Manufacturer:

Integrated DNA Technologies, Inc.

Product Description:

Influenza A viruses are classified into subtypes and named based on the identity of their neuraminidase and hemagglutinin (HA) surface proteins. NR-15425 contains forward and reverse primers that specifically amplify a region of the HA gene of influenza A virus subtype 13 (H13). A protocol is outlined in Appendix I.

Material Provided:

Each vial contains approximately 80 µL of a mixture of forward and reverse primers in TE buffer (pH 7.0). The concentration is shown on the Certificate of Analysis.

Packaging/Storage:

Primers were packaged aseptically in screw-capped plastic cryovials. **The product is provided frozen on dry ice and should be stored at -60°C or colder upon arrival, rather than at -20°C or colder as indicated on the vial label.** Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Influenza A Virus H13 Primers, NR-15425."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

References:

1. Lee, M. S., et al. "Identification and Subtyping of Avian Influenza Viruses by Reverse Transcription-PCR." [J. Virol. Methods](#) 97 (2001): 13-22. PubMed: 11483213.

ATCC® is a trademark of the American Type Culture Collection.



APPENDIX I

Influenza A Virus H13 Primers

Recommended Reagents

Reagent	Source	Catalog #
Influenza A Virus H13 Primers	BEI Resources	NR-15425
Qiagen® OneStep RT-PCR Kit	Qiagen	210212

Reaction Mix¹

Reagent	Stock Concentration	Volume per Reaction (µL)
RNase-free water	---	19
Qiagen® OneStep RT-PCR Buffer	5X	10
Q Solution	5X	10
dNTP Mix	10 mM each	2
Qiagen® OneStep RT-PCR Enzyme Mix	---	2
Primers ²	50 µM (each primer)	2
Template	50 to 5000 ng	5
		Total – 50 µL

¹Reaction mix should be kept on bench-top cooler until ready for use.

²Primers are supplied at working stock concentrations.

Cycling Protocol

Cycle	# of Repeats	Step	Conditions
1	1	1	50°C for 30 minutes
1	1	1	95°C for 15 minutes
2	40	1	94°C for 30 seconds
		2	50°C for 30 seconds
		3	72°C for 1 minute
3	1	1	72°C for 1 minute
4	Indefinite	1	Hold at 4°C