



Human adenovirus 40

VR-931™

Description

Human adenovirus 40 strain Dugan [79-18025] is propagated in 293 [HEK-293] cells (ATCC CRL-1573). This strain was isolated in 1979 from the feces of a human with infantile gastroenteritis. This product is whole-genome sequenced has applications in enteric and infectious disease research.

Strain designation: Dugan [79-18025]

Deposited As: Adenovirus type 40

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Human adenovirus 40

VR-931

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: 293 [HEK-293] (ATCC CRL-1573)

Effects: cell clustering; cell rounding; cell sloughing; CPE

Complete medium:

EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results, cells should be 24 to 48 hours old and 70-80% confluent (not 100% confluent)

Incubation: 3-7 days, a 5% CO₂ in air atmosphere is recommended

Handling Procedures

Human adenovirus 40

VR-931

Mycoplasma contamination: Not detected

Notes

Good immunogen in rabbit and horse; no cross-reactions with 37 prototypes by SN and HAI. Related to strain Tak by SN and HAI. HA at low titer with rat RBC; no HA with rhesus monkey or human O RBC. Stable at -20°C.

Key Abbreviations: 293, Human embryonic kidney cells; °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human adenovirus 40 (ATCC VR-931)

References

References and other information relating to this material are available at www.atcc.org.

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Human adenovirus 40

VR-931

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Human adenovirus 40

VR-931

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
