



# Mumps rubulavirus

VR-1438™

## Description

**Strain designation:** Jones

**Common name:** Mumps virus

**Deposited As:** Mumps

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## 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.

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## 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.

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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** SL-29 (ATCC CRL-1590)

Host Range: chicken embryo fibroblasts; human kidney cells; marmoset kidney cells; rhesus monkey kidney cells; HEp-2 cells (ATCC CCL-23)

**Effects:** cell degeneration; cell sloughing; CPE

**Complete medium:**

EMEM (ATCC® 30-2003™) + 10% FBS (ATCC® 30-2020™) + 1% NEAA + 10 mM HEPES

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** For best results cells should be 24 to 48 hours old and 80% - 90% confluent (not 100% confluent).

**Incubation:** 5 to 7 days at 37°C, a 5% CO<sub>2</sub> in air atmosphere is recommended

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

VR-1438 is a mycoplasma-free strain of Mumps derived at the ATCC® from VR-365 by three passages in the presence of MP Biomedicals Mycoplasma Removal Agent, (4-oxo-quinoline-3-carboxylic acid derivative). The most accurate method of titration to confirm infectivity endpoint is the hemadsorption technique. The Jones strain was passaged extensively in CE and CE TC to attenuate it for humans.

**Key Abbreviations:** CEF, Chicken embryo fibroblast cells; CO<sub>2</sub>, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; FITC, Fluorescein isothiocyanate conjugate; HEp-2, Human laryngeal tumor cells; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid); HK, Human kidney cells; IgG, Immunoglobulin G; K, kidney; µg, Microgram; MAb, Monoclonal antibody; mg, Milligram; mL, Milliliter; M (Ms), Mouse; NEAA, Non-essential amino acids; PCR, Polymerase chain reaction; RhMkK, Rhesus monkey kidney cells; SL-29, chicken embryo fibroblast cells; TC, Tissue culture; TCID<sub>50</sub>, Median tissue culture infective dose; °C, Degrees Celsius; AI, Allantoic; Am, Amnion; CE, Chicken embryo

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Mumps rubulavirus (ATCC VR-1438)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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