



# *Mannheimia haemolytica* (Newsom and Cross) Angen et al.

31612™

## Description

**Strain designation:** 76-72H (Vaccine)

**Deposited As:** *Pasteurella haemolytica* Newsom and Cross

**Type strain:** No

**Patent depository:** This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

**Patent number:**

4,328,210

**Technical information:** ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

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## Storage Conditions

**Product format:** Freeze-dried

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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**

**Medium:**

ATCC Medium 1206: Tryptose broth with thiamine

**Temperature:** 37°C

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## **Handling Procedures**

- 1. Open the vial according to enclosed instructions.**
  - 2. From a single tube of #1206 broth (5 to 6 ml), withdraw approximately 0.5 to 1 ml with a Pasteur or 1.0 ml pipette. Rehydrate the pellet.**
  - 3. Aseptically transfer this aliquot back into the broth tube. Mix well.**
  - 4. Use several drops of the suspension to inoculate a #1206 agar slant and/or plate.**
  - 5. Incubate all tubes and plate at 37°C for 24 to 48 hours.**
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  - 5. Incubate all tubes and plate at 37°C for 24 to 48 hours.**
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## **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Mannheimia haemolytica* (Newsom and Cross) Angen et al. (ATCC 31612)

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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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## ***Mannheimia haemolytica* (Newsom and Cross) Angen et al.**

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