**Designation:** ZM4  
**Deposited Name:** Zymomonas mobilis (Lindner) Kluyver and van Niel  
**Product Description:** Produces ethanol

**Medium**  
ATCC® Medium 1341: RM medium

**Growth Conditions**  
**Temperature:** 30°C  
**Atmosphere:** Aerobic

**Propagation Procedure**
1. Open thawed vial according to enclosed instructions or visit www.atcc.org for instructions.  
2. Aseptically transfer the entire contents to a 5-6 mL tube of #1341 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.  
3. Use several drops of the suspension to inoculate a #1341 agar slant and/or plate.  
4. Incubate the tubes and plate at 30°C for 24 to 48 hours.

**Biosafety Level: 1**

**Intended Use**  
This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

**Citation of Strain**  
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Zymomonas mobilis (ATCC® 31821™)

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