



# CERTIFICATE *of* ACHIEVEMENT



*J.C. Love*  
**J. Christopher Love**

Associate Professor, Department of Chemical Engineering  
*Massachusetts Institute of Technology*

*A.J.S.*  
**Anthony J. Sinskey**

Professor, Department of Biology  
*Massachusetts Institute of Technology*

*Stacy L. Springs*  
**Stacy L. Springs**

Director, Biomufacturing Program  
Center for Biomedical Innovation  
*Massachusetts Institute of Technology*

*Paul W. Barone*  
**Paul W. Barone**

Assistant Director for Programs,  
Center for Biomedical Innovation  
*Massachusetts Institute of Technology*

*Sanjay Sarma*  
**Sanjay Sarma**

Dean of Digital Learning  
*Massachusetts Institute of Technology*

This is to certify that

## Jordan Lovett

successfully completed and received a passing grade in

**10.03x: Making Biologic Medicines for Patients: The  
Principles of Biopharmaceutical Manufacturing**

a course of study offered by MITx, an online learning  
initiative of The Massachusetts Institute of Technology through edX.

VERIFIED CERTIFICATE  
Issued September 07, 2015

Verify the authenticity of this certificate at  
<https://verify.edx.org/cert/f61313612ceb4e0aba191da11afe23b5>