



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

Guillermo Serrano Briega

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/a8825c96abd14aa0841a69245b88ce94>