

## 美国药典在线点播课程 *USP On-Demand Webinar*

### 药用辅料和剂型的黏度与流变学：USP 通则<911>,<912>,<913>和<1911> Viscosity and Rheology of Pharmaceutical Excipients and Dosage Forms: USP <911>, <912>, <913>, and <1911>

课程时长 **Course Duration:** 90分钟 90 minutes



免费视频课!

#### 课程介绍与目的 **Course Description and Objectives:**

这门免费的课程旨在通过 USP 各论中引用的测试方法，使学员了解流变学的基本原理，这些原理应用于药物辅料和剂型的黏度表征。同时，课程将对 USP 通则<911>,<912>,<913>和<1911>的标准进行介绍。

通过学习，您将了解：

- 流变学术语（例如黏度）
- 在辅料和药物剂型中可能遇到的流变行为的变化
- 黏度/其他流变参数与材料和产品性能之间的关系
- 方法标准，以及 USP 各论中这些标准背后的原因
- 在 USP-NF 各论中规定的各种测定黏度和流变特性的仪器
- 美国药典中规定的测量技术和仪器的原理和局限性

This course is intended to provide participants with an understanding of the basic principles of rheology as applied to the characterization of the viscosity of pharmaceutical excipients and formulations via the test methods cited in official USP monographs. This webinar also explains the standards defined in the new official USP General Chapters <911>, <912>, <913>, and <1911>. The rationale for each method will be discussed along with potentially problematic issues that arise in the course of viscosity and other rheological measurements.

By taking this course, you will learn:

- Rheological terms such as viscosity
- Variations in rheological behavior that could be encountered in excipients and pharmaceutical dosage forms
- Relationships of viscosity and other rheological parameters to material and product performance
- Methodology specifications and the reasons behind these specifications in USP monographs
- Various viscometric and rheological instruments specified in USP-NF monographs for determination of viscosity and rheological behavior in general
- Rationale and limitations of the measurement techniques and instruments specified in the USP

#### 参课对象 **Who Should Attend:**

QA/QC 人员、实验室经理、仪器设备专员、剂型研究员、研发人员、法规审核员、原材料专员、供应链专员  
QA/QC, Lab managers, Instrument specialists, Formulation scientists, R&D scientists, Regulatory reviewers, Raw material specialists, Supply chain specialists

#### 授课语言 **Language:**

英语（含英文字幕） English (with English subtitles)

报名请登录 USP 会议与培训中文平台，[点击这里](#)（[课程报名](#)）进行在线报名。

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#### 讲师介绍 Instructor:

**Lawrence H. Block 博士，美国药典委员会辅料各论专家委员会主席**

**Lawrence H. Block, Ph.D., Chair, Excipient Monographs Expert Committee, USP**

Lawrence H. Block 博士是美国杜肯大学药学院和药理学研究生院药剂学荣誉教授。Block 博士拥有美国马里兰州大学药剂学博士学位。Block 博士是美国药学家学会 (AAPS) 和美国药师协会-药物研究与科学学会 (APhA-APRS) 会员，也是美国药学院协会、控释学会、纽约科学院和流变学会成员。

Block 博士曾任美国药学院协会药剂学教师分会和 APhA-APRS 基础药学分会主席。他目前是国药典委员会 (USP) 专业委员会成员，并担任 USP 辅料各论专家委员会主席。他曾荣获 2000 年度杜肯大学校长奖——杰出学者奖。Block 博士在其职业生涯中发表了 100 多篇论文，指导了 70 多名药学硕士和博士研究生。他的研究领域包括辅料技术、流变学、药品和化妆品运输体系、制药工程、生物制药和药物代谢动力学。他曾经是日本神户学院大学的访问学者和匹兹堡大学药学院药物遗传学中心药理学客座教授。

Lawrence H. Block is Professor Emeritus of Pharmaceutics at the Mylan School of Pharmacy and Graduate School of Pharmaceutical Sciences at Duquesne University. Dr. Block was educated at the University of Maryland where he earned his B.S. in Pharmacy, M.S., and Ph.D. degrees. Dr. Block is a fellow of both the American Association of Pharmaceutical Scientists (AAPS) and the American Pharmacists' Association – Academy for Pharmaceutical Research and Science (APhA-APRS). He is a member of APhA-APRS, AAPS, the American Association of Colleges of Pharmacy, the Controlled Release Society, the New York Academy of Sciences, and Society of Rheology.

Dr. Block is a Past Chair of both the Teachers of Pharmaceutics Section of the American Association of Colleges of Pharmacy and the Basic Pharmaceutical Sciences Section of the APhA-APRS. He currently serves as a member of the United States Pharmacopeia's (USP) Council of Experts and is Chair, Excipient Monographs Expert Committee of the USP, a recipient in 2000 of the Duquesne University President's Award for Excellence in Scholarship. Dr. Block has authored more than 100 publications and mentored more than 70 Pharm.D., M.S., and Ph.D. research students in the course of his professional career. His research interests embrace excipient technology, rheology, drug and cosmetic delivery systems, pharmaceutical engineering, biopharmaceutics, and pharmacokinetics. He has served as a Visiting Scholar at Kobe Gakuin University in Kobe, Japan and Visiting Professor of Pharmaceutical Sciences at the Center of Pharmacogenetics and the University of Pittsburgh School of Pharmacy.

#### 报名方式 Register Procedures:

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#### 课程有效期 Access Deadline:

课程在线观看有效期：自在线报名成功日起，14 天内有效，逾期课程访问通道将自动关闭。

（报名成功后您会收到课程登录用户名、密码邮件）

This course will be only available to you for 14 days from the day of successful registration or until you mark it 'Complete' in your transcript— whichever occurs first.