

Table of Contents

Upstream Processing CORE PRODUCTION SYSTEM

tPA Secreting CHO Cells...1

- ▶ SOP: Batch Culture of Recombinant tPA Secreting CHO Cells...3
- ▶ SOP: Biological Safety Cabinet Operation...9
- ▶ SOP: Bellco Spinner Flask Cleaning & Autoclaving...13
- ▶ SOP: Sanyo Dual CO2 Incubator MCO-180IC Operation...17
- ▶ SOP: Applikon Bioreactor Operation...21
- ▶ SOP: Trypan Blue Assay...35
- ▶ SOP: Lecia DME Microscope...39
- ▶ SOP: Shimadzu UV-Visible Spectrophotomete...45
- ▶ SOP: Orion 4 Star pH Meter...51
- ▶ SOP: Kodak IBI Biolyzer Operation...55
- ▶ SOP: Kodak EKTACHEM DT Pipettor...57
- ▶ Batch Record: tPA Production from CHO Cells...59
- ▶ Competencies List: Upstream Processing...75

Downstream Processing tPA Secreting CHO Cells...77

- ▶ SOP: Ion Exchange Chromatography of tPA...79
- ▶ SOP: BioLogic LP Chromatography System Operation...83
- ▶ Batch Record: tPA Production from CHO Cells Downstream Process...93
- ▶ SOP: Millipore Pellicon XL Tangential Flow Filter...99
- ▶ Competencies List: Downstream Processing...103



Table of Contents

QUALITY CONTROL Biochemistry....105

- ▶ SOP: SDS-PAGE....107
- ▶ SOP: Xcell SureLock Mini-Cell Gel Box....111
- ▶ SOP: BioTek Elx 8080UI Automated Microplate Reader....115
- ▶ SOP: tPA (direct) ELISA....119
- ▶ SOP: tPA (activity) ELISA....125
- ▶ Competencies List: Quality Control Biochemistry....129

Appendix....131

- ▶ PROTOCOL: Protocol for Human Tissue Plasminogen Activator (tPA) Production in a Spinner Flask....133

