



RECOMBINANT THERAPEUTIC MONOCLONAL ANTIBODIES. DETERMINATION OF PRODUCT-RELATED IMPURITIES ACCORDING TO USP 129 AND CH.P 3127

INTRODUCTION

The present method is used for the determination of product-related impurities in **recombinant therapeutic monoclonal antibodies (Immunoglobulin G, IgG)** according to United States Pharmacopoeia general chapter 129 (Analytical Procedures for Recombinant Therapeutic Monoclonal Antibodies, Capillary SDS electrophoresis) using CAPEL-205 capillary electrophoresis system. Alternatively, the determination of IgG impurities in accordance with Chinese Pharmacopoeia general chapter 3127 (Monoclonal antibodies – Determination of molecular size variants (CE-SDS)) can also be performed using CAPEL-205.

MEASUREMENT METHOD

The measurement method is based on capillary gel electrophoresis (CGE) with direct UV detection at the wavelength of 220 (214) nm. Sample preparation procedure (denaturation with SDS under reducing or non-reducing conditions) and analysis conditions in accordance with USP 129 or Ch.P 3127.

EQUIPMENT AND REAGENTS

The CAPEL-205 capillary electrophoresis system is used in measurements. Data acquisition, collection, processing and output are performed using a personal computer running under WINDOWS® XP/7/8/10 operating system with installed dedicated software package ELFORUN. All reagents according to USP 129 or Ch.P 3127.



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