

Enantiomeric Separation of Propranolol with Cyclodextrins as Chiral Selector



Capillary Electrophoresis is a powerful analytical technique for chiral analysis.

INTRODUCTION

Racemic Propranolol is a medication of the beta-blocker type very useful to treat cardiovascular diseases. The S(-)-enantiomer is approximatively 100 times more active and more slowly metabolized than the R(-)-enantiomer. In this application note, we use the Wyn-CE Capillary Electrophoresis system, for the propranolol chiral separation.

STANDARD AND REAL ANALYSIS

Buffer : Phosphate buffer + ethanolamine + CD, pH 3.0 Capillary : bare-fused silica, L = 35 cm, I = 27 cm, ID = 50 μm Injection : hydrodynamic, 50 mbar, 5 s Voltage : +20 kV Detection : UV, 214 nm Temperature : 25 °C

