

Synthesis of Tritium-Labeled Ganciclovir

G. V. Sidorov* and N. F. Myasoedov

*Institute of Molecular Genetics, Russian Academy of Sciences,
pl. Akad. Kurchatova 2, Moscow, 123182 Russia; * e-mail: sidgv@img.ras.ru*

Received February 1, 2011

Abstract—The influence of temperature on the solid-phase isotope exchange of Ganciclovir with tritium was studied. Synthesis conditions were found, and tritium-labeled Ganciclovir with the molar radioactivity of 25 Ci mmol⁻¹ (0.925 PBq mol⁻¹) and purity higher than 98% was prepared.

Keywords: Ganciclovir, tritium, solid-phase isotope exchange, labeled compounds

DOI: 10.1134/S1066362211060130