THE STRUCTURE OF THE OXIDATION PRODUCTS OF IMATINIB STUDIED WITH $^1$H- AND $^{13}$C-NMR SPECTROSCOPY

Wojciech Szczepek $^1$, Maciej Skarżyński $^1$, Piotr Cmoch $^{1,2}$, Wojciech Łuniewski $^1$ and Bożena Kosmacińska $^1$

$^1$ Pharmaceutical Research Institute, Warsaw
$^2$ Institute of Organic Chemistry, Polish Academy of Science, Warsaw

Imatinib mesylate (known as gleevec) is used to treat certain types of cancer including Chronic Myeloid Leukemia (CML) and Gastrointestinal Stromal Tumors (GIST). The following substances were isolated and identified as the products of oxidation of imatinib with hydrogen peroxide during stress testing.

A set of $^1$H- and $^{13}$C-NMR data is presented, which allows to identify these compounds and to study their structure, both as pure bases and salts (mesylates).