Sesquiterpenes from *Betula Pendula Roth*. Buds

Dmitriy N. Vedernikov, Viktor I. Roschin

*Sankt-Petersburg Forest Technical Academy, Sankt-Petersburg, 194018, Institutsky p. 5
Fax: 7-812-550-08-15
E-mail: woodcoal@mailbox.alkor.ru

New and old sesquiterpenes has been isolated from *Betula Pendula Roth.* buds essential oil and identified through its spectroscopic properties as 4,11,11-trimethyl-8-methylenbicyclo[7,2]undec-4-en-14-ol (2,6%), its acyl derivative (31,5%), 4,11,11-trimethyl-8-methylenbicycloundec-4-en-6-ol (18,7%), its acyl derivative (7,8%), 3,7,10-tetramethyl-cycloundecen-3,5,9-trienol (1,5%), its acyl derivative (4,0%), β-caryophyllene (2,9%), aldehyde (7,5%).

14-Hydroxy-β-caryophyllene has been recently from *Juniperus oxycedrus L.* [1]. 6-Hydroxy-β-caryophyllene has been isolated from *Pendula Pubescenes* buds [2], but publication are not contain spectroscopic information. There are unmistakable proofs of Holub’s [3] and Hiltunen’s [4] having been wrong in the qualitative analysis of *Betula* buds.

References