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November 21-22, 2018 | Madrid, Spain

DAY 1

Keynote Forum

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Gorgaslidze N & M Getia, J Chem Tech App 2018, Volume 2

Gorgaslidze N and M Getia

TSMU Iovel Kutateladze Institute of Pharmacochemistry, Georgia

Biography

Gorgaslidze N has completed her PhD at the age of 37 years from Saint-Petersburg State Chemical-Pharmaceutical Academy, Russia. She is a director of TSMU Iovel Kutateladze Institute of Pharmacochemistry and professor at the department of Social and Clinical Pharmacy at Tbilisi State Medical University. She has published more than 100 publications in reputed journals, the author of 4 books and 2 patens. She is a member of organizing committee of several international conferences and meetings. She has more 40 years of teaching experience at the Tbilisi State Medical University, Georgia. She is founder of the Georgian Pharmaceutical Association (President 2002-2005) and newspaper - "Pharmacy". She is member of Scientist and Young Pharmacists of Georgia. Nana Gorgaslidze has long timework experience in the Ministry of Health, Labor and Social Affairs of Georgia in field of state control of quality medicinal and pharmaceutical products and other departments of the same ministry.

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Note:

DEVELOPMENT OF HPLC METHOD FOR ESTIMATION OF BROMELAIN IN GEL FORMULATION

At the TSMU Iovel Kutateladze Institute of Pharmacochemistry has developed Bromelain containing gel with fibrinolytic, antithrombotic, anti-tumor, anti-edema and anti-inflammatory properties. The active compound of gel formulation is complex of proteolytic enzymes – proteases derived from the stem of Ananas comosus. Bromelain is being the chemical and biological marker of the gel formulation. A simple and reliable HPLC method is developed for the quantitative evaluation of the gel formulation using this compound.

The isocratic separation was achieved using an XDB C-18 (4.6 x 250 mm; 5 µkm). The UV detection is performed at 280 nm. All separations were realized at 20°C.Mobile phase consisting of solvent A (acetonitrile) and solvent B (0.1% formic acid in water) [10:90] at a flow rate of 1 ml/min.

The proposed HPLC method is linear in the range studied (r2> 0.9996) for all the analytes. The method is precise with intra- and inter-day variations of less than 1.68%. Precision, sensitivity and linearity are satisfactory in the range studied. Accuracy 99,2±0,9%. The method was validated as per ICH guidelines and can be adopted for the routine analysis of Bromelain in gel formulations.