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## Aldose reductase inhibitors from *Perilla frutescens* var. *japonica*

**Jaemin Lee<sup>1</sup>, Jeong Min Lee<sup>2</sup>, Myoung-Hee Lee<sup>2</sup>, Ki Won Oh<sup>2</sup>, Eun Ju Cho<sup>3</sup> and Sanghyun Lee<sup>1</sup>**

<sup>1</sup>Chung-Ang University, Republic of Korea

<sup>2</sup>National Institute of Crop Science, Republic of Korea

<sup>3</sup>Pusan National University, Republic of Korea

To investigate the therapeutic activities of compounds from natural plant source, the seeds of *Perilla frutescens* var. *japonica* were tested for inhibition of aldose reductase inhibition (ARI). The EtOH extracts of *P. frutescens* var. *japonica* were tested ARI. Additionally, stepwise polarity fractions and compounds from *P. frutescens* var. *japonica* were exhibited ARI. The compounds were identified as luteolin (1), apigenin (2), diosmetin (3), kaempferol (4),  $\beta$ -sitosterol (5), and daucosterol (6) by NMR. As a result, the EtOAc fraction and flavonoids (compounds 1-4) showed good ARI. Our results expect that the seeds of *P. frutescens* var. *japonica* could be useful and helpful ARI materials against various diabetic complications.

### Biography

Jaemin Lee is a graduate student at Chung-Ang University, Republic of Korea.

[slee@cau.ac.kr](mailto:slee@cau.ac.kr)

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