

Endogenous levels of cytokinins, indole-3-acetic acid and abscisic acid in in vitro grown potato: A contribution to potato hormonomics

Martin Raspor, Václav Motyka, Slavica Ninković, Petre I. Dobrev, Jiří Malbeck, Tatjana Čosić, Aleksandar Čingel, Jelena Savić, Vojin Tadić, Ivana Č. Dragičević

Supplementary Information

Supplementary Table S1. [²H]-labelled compounds used as internal standards for cytokinin quantification. For the determination of ribonucleotides, deuterated ribonucleotides (*tZRMP*, *DHZRMP* and *iPRMP*) were added as internal standards prior to sample purification and dephosphorylation. *cZ* – *cis*-zeatin; *tZ* – *trans*-zeatin; *DHZ* – dihydrozeatin; *iP* – *N*⁶-(Δ^2 -isopentenyl)adenine; *cZR* – *cis*-zeatin 9-riboside; *tZR* – *trans*-zeatin 9-riboside; *DHZR* – dihydrozeatin 9-riboside; *iPR* – *N*⁶-(Δ^2 -isopentenyl)adenine 9-riboside; *cZOG* – *cis*-zeatin *O*-glucoside; *tZOG* – *trans*-zeatin *O*-glucoside; *DHZOG* – dihydrozeatin *O*-glucoside; *cZROG* – *cis*-zeatin 9-riboside *O*-glucoside; *tZROG* – *trans*-zeatin 9-riboside *O*-glucoside; *DHZROG* – dihydrozeatin 9-riboside *O*-glucoside; *cZ7G* – *cis*-zeatin 7-glucoside; *tZ7G* – *trans*-zeatin 7-glucoside; *DHZ7G* – dihydrozeatin 7-glucoside; *iP7G* – *N*⁶-(Δ^2 -isopentenyl)adenine 7-glucoside; *cZ9G* – *cis*-zeatin 9-glucoside; *tZ9G* – *trans*-zeatin 9-glucoside; *DHZ9G* – dihydrozeatin 9-glucoside; *iP9G* – *N*⁶-(Δ^2 -isopentenyl)adenine 9-glucoside. The system of cytokinin abbreviations is adopted and modified according to Kamínek et al. (2000)⁶.

Deuterated compounds	Used as internal standard for
<i>tZ7G-D</i> ₅	<i>tZ7G</i> , <i>cZ7G</i>
<i>tZ9G-D</i> ₅	<i>tZ9G</i> , <i>DHZ7G</i> (1,2)*
<i>tZOG-D</i> ₅	<i>tZOG</i> , <i>cZOG</i>
<i>DHZ9G-D</i> ₃	<i>DHZ9G</i> , <i>cZ9G</i>
<i>DHZOG-D</i> ₇	<i>DHZOG</i>
<i>tZROG-D</i> ₅	<i>tZROG</i> , <i>cZROG</i>
<i>tZ-D</i> ₅	<i>tZ</i>
<i>DHZ-D</i> ₃	<i>DHZ</i> , <i>cZ</i>
<i>tZR-D</i> ₅	<i>tZR</i> , <i>DHZROG</i>
<i>DHZR-D</i> ₃	<i>DHZR</i> , <i>cZR</i>
<i>iP7G-D</i> ₆	<i>iP7G</i>
<i>iP9G-D</i> ₆	<i>iP9G</i>
<i>iPR-D</i> ₆	<i>iPR</i>
<i>iP-D</i> ₆	<i>iP</i>

**DHZ7G* represents a mixture of two optical isomers separated by HPLC.