



Figure S1. In a system without seedlings, the spontaneous degradation of NQD was observed during 96 h of incubation. The results are presented as the mean values \pm SEM (n = 5) and were analyzed by Dunnett's multiple comparison test ($p \leq 0.05$).

Table S1. Yield of NQD extraction in soybean and maize roots incubated for 96 h. Mean values (n = 3).

Sample	Area (mAU)	Performance (%)
125 μ M NQD	1853996	
Soybean	1624525	87%
Maize	1442945	77%

Table S2. Identification of proteins by mass spectrometry.

UniProt code	Description	Molecular mass (Da)	Score	Coverage (%)
Q9SQT8	Bifunctional 3- dehydroquinate desidratase/shikimate dehydrogenase from <i>A.</i> <i>thaliana</i>	66138	13717	75.79
A0A119LPF9	Transmembrane protein <i>A. thaliana</i>	12109	5708	43.65

Table S3. Biometric parameters of soybean seedlings incubated for 48 h without (control) or with 100 μM glyphosate and 100 μM glyphosate plus 500 μM NQD.

Soybean	Length	Fresh biomass
Control	4.943 \pm 0.4296 ^a	1.110 \pm 0.0479 ^a
Glyphosate	2.620 \pm 0.3612 ^b	0.829 \pm 0.0551 ^b
Glyphosate + NQD	2.097 \pm 0.1260 ^b	0.814 \pm 0.0474 ^b

Mean values \pm SEM (n = 3) followed by different letters are significantly different, as determined by Tukey's multiple comparisons test (*p*)