

# SUPPLEMENTARY MATERIAL

## Identification of Biotransformation Products of T-2 Toxin in HepG2 Cells Using LC-Q-TOF MS

Mercedes Taroncher <sup>1,2</sup>, Veronica Zingales <sup>1,2</sup>, Yelko Rodríguez-Carrasco <sup>1,2,\*</sup>  
and María José Ruiz <sup>1,2</sup>

<sup>1</sup> Laboratory of Food Chemistry and Toxicology, Faculty of Pharmacy and Food Science, University of Valencia, Av. Vicent Andrés Estellés s/n, 46100 Burjassot, Spain; mercedes.taroncher@uv.es (M.T.); veronica.zingales@uv.es (V.Z.); m.jose.ruiz@uv.es (M.J.R.)

<sup>2</sup> Research Group Alternative Methods for Determining Toxic Effects and Risk Assessment of Contaminants and Mixtures (RiskTox; GIUV2021-513), University of Valencia, 46100 València, Spain

\* Correspondence: yelko.rodriguez@uv.es; Tel./Fax: +34-96-3544-228

CELL FRACTION					
Time of exposure	Mycotoxin				
	T-2 (nM)	HT-2 (nM)	T-2 triol (nM)	T-2 tetraol (nM)	NEO (nM)
0h	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
	<LOQ	<LOQ	<LOQ	<LOQ	<LOQ
1h	<LOQ	27,43	0,72	<LOQ	<LOQ
	<LOQ	25,6	0,94	<LOQ	<LOQ
	<LOQ	24,8	0,8	<LOQ	<LOQ
2h	<LOQ	32	1,65	<LOQ	<LOQ
	<LOQ	31,87	1,64	<LOQ	<LOQ
	<LOQ	33,51	1,7	<LOQ	<LOQ
3h	<LOQ	33,56	1,11	1,19	<LOQ
	<LOQ	34,84	1,17	1,24	<LOQ
	<LOQ	39,54	1,16	1,18	<LOQ
6h	<LOQ	44,41	0,39	1,74	<LOQ
	<LOQ	43,61	0,34	1,81	<LOQ
	<LOQ	45,17	0,42	1,73	<LOQ
8h	<LOQ	40,61	0,51	1,71	<LOQ
	<LOQ	41,53	0,52	1,73	<LOQ
	<LOQ	40,58	0,55	1,74	<LOQ
24h	<LOQ	39,47	0,61	1,84	1,46
	<LOQ	38,84	0,63	1,86	1,52
	<LOQ	41,61	0,68	1,85	1,63

**Table S1.** Concentration of T-2, HT-2, T2-triol, T2-tetraol and Neo identified and quantified by LC-Q-TOF MS in the cell fraction of HepG2 cells after 0, 1, 2, 3, 6, 8 and 24 h of 60 nM of T-2 exposure to 60 nM T-2.

CULTURE MEDIUM					
Time of exposure	Mycotoxin				
	T-2 (nM)	HT-2 (nM)	T-2 triol (nM)	T-2 tetraol (nM)	NEO (nM)
0h	57,8	<LOQ	<LOQ	<LOQ	<LOQ
	59,4	<LOQ	<LOQ	<LOQ	<LOQ
	58,9	<LOQ	<LOQ	<LOQ	<LOQ
1h	18,4	11,3	<LOQ	<LOQ	<LOQ
	17,6	11,1	<LOQ	<LOQ	<LOQ
	18,9	11,5	<LOQ	<LOQ	<LOQ
2h	5,4	15,4	0,41	<LOQ	<LOQ
	5,3	15,7	0,46	<LOQ	<LOQ
	5,8	15,6	0,51	<LOQ	<LOQ
3h	1,7	18,1	0,19	<LOQ	<LOQ
	1,8	17,9	0,24	<LOQ	<LOQ
	2,1	18,5	0,23	<LOQ	<LOQ
6h	<LOQ	12,4	0,15	0,02	<LOQ
	<LOQ	12,6	0,12	0,05	<LOQ
	<LOQ	12,7	0,09	0,03	<LOQ
8h	<LOQ	12,7	0,11	0,21	<LOQ
	<LOQ	12,6	0,14	0,19	<LOQ
	<LOQ	12,4	0,08	0,23	<LOQ
24h	<LOQ	12,6	0,03	0,94	0,21
	<LOQ	12,1	0,02	1,23	0,22
	<LOQ	12,9	0,05	0,98	0,17

**Table S2.** Concentration of T-2, HT-2, T2-triol, T2-tetraol and Neo identified and quantified by LC-Q-TOF MS in the culture medium of HepG2 cells after 0, 1, 2, 3, 6, 8 and 24 h of 60 nM of T-2 exposure.