

## Supplementary information

### **BINARY, TERNARY AND QUATERNARY MIXTURE TOXICITY OF BENZO[a]PYRENE, ARSENIC, CADMIUM AND LEAD IN HEPG2 CELLS**

Sasikumar Muthusamy<sup>1,2</sup>, Cheng Peng<sup>1,2</sup>, Jack C. Ng<sup>1,2</sup>

<sup>1</sup>The University of Queensland, National Research Centre for Environmental Toxicology  
(Entox), Coopers Plains, Brisbane, QLD 4108, Australia.

<sup>2</sup>CRC CARE, The University of Newcastle, University Drive, Callaghan NSW 2308, Australia.

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Table S1. Individual concentrations of benzo[a]pyrene (B[a]P), arsenic (As), cadmium (Cd) and lead (Pb) in mixture toxicity of B[a]P and heavy metal/lloid(s) in HepG2 cells.

**Table S1. Concentrations of benzo[a]pyrene (B[a]P), arsenic (As), cadmium (Cd) and lead (Pb) in mixture toxicity study of B[a]P and heavy metal/loid(s) in HepG2 cells.**

Type of mixtures	As (μM)	Cd (μM)	Pb (μM)	B[a]P (μM)	Total mixture concentration (μM)
Individual dose response study	0, 3.125, 6.25, 12.5, 25, 50, 100, 200 and 400	0, 0.312, 0.625, 1.25, 2.5, 5, 10, 20 and 40	0, 3.125, 6.25, 12.5, 25, 50, 100, 200 and 400	0, 1.56, 3.125, 6.25, 12.5, 25, 50, 100	
Binary mixtures					
As + Cd	150	2.5			152.5
As + Pb	150		150		300
Cd + Pb		2.5	150		152.5
B[a]P + As	150			25	175
B[a]P + Cd		2.5		25	27.5
B[a]P + Pb			150	25	175
Ternary mixtures					
As + Cd + Pb	150	2.5	150		302.5
B[a]P + As + Cd	150	2.5		25	177.5
B[a]P + As + Pb	150		150	25	325
B[a]P + Cd + Pb		2.5	150	25	177.5
Quaternary mixture					
B[a]P + As + Cd + Pb	150	2.5	150	25	327.5

B[a]P and heavy metal/loid(s) were mixed at 1: 1 ratio based on their  $D_m$  concentration to prepare binary, ternary and quaternary mixtures. Each mixture was serially diluted at 2 fold for 8 times. Treatment was carried in triplicate for each concentration of mixtures and three independent experiments were carried out. Vehicle control (DMSO/or MQ water) is added in triplicate for each mixture study of experiments.