

## **Supplementary Information 2**

### **Digging below the surface: the hidden quality of the OECD nanosilver dossier**

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Table S2: Chi-squared test results for all criteria.

Criteria	NON-OECD studies vs nanosilver dossier alone			NON-OECD studies vs nanosilver dossier and its underlying original published studies		
	X-squared	df	p-value	X-squared	df	p-value
<b>Information/Identification</b>						
a. NM used	0	1	1	0	1	1
b. Form	7.781	1	<b>0.00528</b>	7.781	1	<b>0.00528</b>
c. Manufacturer	8.91E-31	1	1	4.16E-29	1	1
d. Batch	4.2124	1	<b>0.04013</b>	4.2124	1	<b>0.04013</b>
<b>Chemical Identity</b>						
a. Composition	18.744	1	<b>1.50E-05</b>	18.744	1	<b>1.50E-05</b>
b. Impurities	4.6655	1	<b>0.03077</b>	2.9898	1	<b>0.08379</b>
c. Coatings	0.071631	1	0.789	0.61211	1	0.434
<b>Physical Identity</b>						
a. Particle size, size distribution	15.297	1	<b>9.19E-05</b>	3.0834	1	<b>0.07909</b>
b. Basic shape	0.47173	1	0.4922	3.6104	1	0.05742
c. BET surface	5.8936	1	<b>0.0152</b>	2.1997	1	<b>0.138</b>
<b>Sample preparation</b>						
a. medium of dispersion	0.72914	1	0.3932	0.0080296	1	0.9286
b. Preparation of stock or direct dosing	0.10844	1	0.7419	1.10E-30	1	1
c. Way of dispersal	0.038564	1	0.8443	0.038564	1	0.8443
d. Nominal concentration of stock solution	0.0614293	1	0.8043	0.070056	1	0.7913
<b>Testing parameters</b>						
a. Type of medium used	1.1404	1	0.2856	0.011916	1	0.9131
b. Concentration used for the assay	0.020383	1	0.8865	1.78E-30	1	1
c. Controls?	13.722	1	<b>0.0002119</b>	2.0525	1	<b>0.152</b>
d. Check for interferences?	0.34831	1	0.5551	3.2779	1	0.07022
e. Test organism	0	1	1	0	1	1
<b>Fundamental Behaviour</b>						
a. Solubility in test medium	9.3961	1	<b>0.002174</b>	5.4983	1	<b>0.01904</b>
b. Solubility during exposure	4.6655	1	<b>0.03077</b>	0.94042	1	<b>0.3322</b>
c. Particle size distribution in test medium (agglomeration)	5.6486	1	<b>0.01747</b>	1.422	1	<b>0.2331</b>
d. Particle size distribution during exposure (agglomeration)	0.0038728	1	0.9504	2.7831	1	0.09526
e. Zeta potential in test medium	6.4055	1	<b>0.01138</b>	1.8708	1	<b>0.1714</b>