

## Interaction of uranium(VI) with lipopolysaccharide

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### Supplementary Data

Table S1: Summary of all TRLFS measurement series

pH	c[U] (M)	c[LPS] (g/L)	t <sub>1</sub>	t <sub>2</sub>	Peak maxima (nm)					Comments	
2.53	1.0E-05	0.000	1566(A)		488.9	510.5	533.5	560.1			(A) UO <sub>2</sub> <sup>2+</sup>
2.53	1.0E-05	0.000	1773(A)		488.8	510.4	532.9	559.0	583.8		
4.78	1.0E-05	0.000	835(A)	7997(B)	477.1	500.1	520.6	542.1	572.7		(B) UO <sub>2</sub> OH <sup>+</sup> /
5.40	1.0E-05	0.000	3609(B)	21561(C)	500.5	516.9	534.8	559.5	586.8		(UO <sub>2</sub> ) <sub>2</sub> (OH) <sub>2</sub>
5.95	1.0E-05	0.000	6018(B)	28637(C)	501.3	515.2	532.5	560.1	587.9		(C) (UO <sub>2</sub> ) <sub>3</sub> (OH) <sub>5</sub> <sup>+</sup>
7.03	1.0E-05	0.000		29611(C)	503.6	517.1	533.8	557.6	590.5		
2.55	1.0E-05	0.050	n.m.		481.4	497.5	519.0	542.6	567.7	598.4	n.m. lifetime not measured
2.55	1.0E-05	0.075	n.m.		480.9	497.4	518.9	542.7	567.4	592.5	
2.51	1.0E-05	0.100	1635 <sup>A</sup>	8532 <sup>1</sup>	480.7	497.3	518.9	542.8	567.4	595.6	(1) R–O–PO <sub>3</sub> H–UO <sub>2</sub> <sup>+</sup>
2.58	1.0E-05	0.200	1459 <sup>A</sup>	9467 <sup>1</sup>	480.5	497.3	519.1	542.7	567.2	597.2	
2.55	1.0E-05	0.500	1193 <sup>A</sup>	7475 <sup>1</sup>	480.8	497.3	518.7	542.1	566.6	595.6	
2.56	1.0E-05	0.750	1766 <sup>A</sup>	8401 <sup>1</sup>	480.5	497.1	518.8	542.3	566.5	597.0	
2.56	1.0E-05	1.000	1890 <sup>A</sup>	8120 <sup>1</sup>	480.3	497.2	518.8	542.5	567.0	595.4	
3.35	1.0E-05	0.100	1411 <sup>A</sup>	7868 <sup>1</sup>	480.8	497.8	519.1	542.8	568.4	596.5	
3.21	1.0E-05	1.000	1728 <sup>A</sup>	7304 <sup>1</sup>	484.2	498.6	519.6	543.2	568.0	595.5	
3.35	5.0E-05	1.000	1308 <sup>A</sup>	7928 <sup>1</sup>	481.9	498.3	519.8	543.3	568.2	596.3	

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3.30	1.0E-04	1.000	n.m.		481.6	498.2	519.6	543.1	567.6	596.7	
3.95	1.0E-05	0.025	n.m.		486.0	499.4	520.5	544.6	568.7	598.7	(2) R–O–PO <sub>3</sub> –UO <sub>2</sub> (3) (R–O–PO <sub>3</sub> ) <sub>2</sub> –UO <sub>2</sub> <sup>2-</sup>
4.01	1.0E-05	0.050	n.m.		481.1	498.7	520.1	543.3	567.1	598.3	
4.02	1.0E-05	0.075	n.m.		482.4	498.9	520.4	543.8	568.0	595.4	
4.03	1.0E-05	0.100	1039 <sup>2</sup>	13210 <sup>3</sup>	483.0	499.7	520.6	543.8	567.8	595.9	
4.04	1.0E-05	0.200	932 <sup>2</sup>	12058 <sup>3</sup>	483.2	499.5	520.5	543.8	567.7	596.8	
4.02	1.0E-05	0.500	680 <sup>2</sup>	11866 <sup>3</sup>	484.3	499.6	520.6	543.9	567.2	598.4	
4.05	1.0E-05	0.750	1066 <sup>2</sup>	10839 <sup>3</sup>	483.2	499.4	520.6	543.8	567.7	595.6	
4.04	1.0E-05	1.000	771 <sup>2</sup>	11298 <sup>3</sup>	483.4	499.5	520.6	543.9	568.1	596.0	
6.94	1.0E-05	0.025	n.m.			503.7	522.9	543.5	569.5		U-Hydroxide
6.96	1.0E-05	0.050	1426 <sup>2</sup>	12200 <sup>3</sup>		501.9	521.8	542.3	569.7		U-Hydroxide
6.94	1.0E-05	0.075	1810 <sup>2</sup>	14267 <sup>3</sup>	483.5	499.6	520.4	543.1	566.5	597.8	
7.00	1.0E-05	0.100	1104 <sup>2</sup>	12266 <sup>3</sup>	482.5	499.0	520.5	544.0	568.7	597.3	
6.96	1.0E-05	0.200	n.m.		483.2	499.5	520.9	544.4	569.1	595.4	
7.05	1.0E-05	0.500	n.m.		483.9	499.9	521.2	544.5	569.0	597.3	
6.95	1.0E-05	0.750	1349 <sup>2</sup>	13532 <sup>3</sup>	483.7	500.0	521.3	544.7	569.6	599.5	
7.02	1.0E-05	1.000	871 <sup>2</sup>	14248 <sup>3</sup>	483.7	500.0	521.3	544.7	569.4	597.1	
7.00	1.0E-05	0.100	293	9218 <sup>3</sup>	483.9	499.5	520.6	544.1	568.2	597.0	
7.01	1.0E-05	1.000	312	21651 <sup>3</sup>	483.9	499.7	520.7	544.2	568.4	595.7	
7.00	5.0E-05	1.000	1198 <sup>2</sup>	16232 <sup>3</sup>	483.5	499.6	520.7	544.0	568.0	594.3	
6.97	1.0E-04	1.000	1505 <sup>2</sup>	22462 <sup>3</sup>	483.2	499.5	520.7	543.8	567.1	594.9	
9.01	1.0E-05	1.000	4720	29436	482.6	499.4	520.7	542.6	561.6	599.6	U-Hydroxide
8.65	5.0E-05	1.000	7513	37361	482.8	499.4	520.6	543.3	564.5	592.5	U-Hydroxide
8.78	1.0E-04	1.000	8116	42873	480.0	501.1	521.5	543.2	565.0	592.3	U-Hydroxide
2.43	1.0E-05	0.025	1532			496.6	518.2	540.9	567.6		
2.40	1.0E-05	0.050	1237		482.6	497.5	518.8	541.9	568.0		
2.44	1.0E-05	0.075	1887	9066 <sup>1</sup>	482.0	497.6	519.2	542.3	568.6		
2.47	1.0E-05	0.100	1620	9020 <sup>1</sup>	480.8	497.3	519.0	542.5	568.7		
2.53	1.0E-05	0.250	1722	8100 <sup>1</sup>	481.6	497.5	519.1	542.3	568.6		
2.42	1.0E-05	0.500	1926	8132 <sup>1</sup>	481.4	497.4	518.9	542.1	569.2		
2.40	1.0E-05	1.000	1800	8844 <sup>1</sup>	481.3	497.4	519.0	542.3	569.0		
4.05	1.0E-05	0.025	1007 <sup>2</sup>		479.9	498.3	520.4	542.4	567.2	602.3	
4.00	1.0E-05	0.050	567 <sup>2</sup>	12574 <sup>3</sup>	481.4	497.6	519.1	542.0	566.6	596.2	
4.10	1.0E-05	0.075	1281 <sup>2</sup>	11956 <sup>3</sup>	483.9	498.1	519.2	542.5	568.0		
4.03	1.0E-05	0.100	1309 <sup>2</sup>	14240 <sup>3</sup>	482.0	497.7	518.8	542.1	567.6	596.6	
4.09	1.0E-05	0.250	852 <sup>2</sup>	11254 <sup>3</sup>	482.5	498.4	519.3	542.5	568.1	596.4	
4.05	1.0E-05	0.500	1236 <sup>2</sup>	12966 <sup>3</sup>	483.1	498.7	520.0	542.9	567.4	596.4	

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4.05	1.0E-05	1.000	1284 <sup>2</sup>	12904 <sup>3</sup>	483.3	498.8	519.8	543.1	568.2	596.0	
6.05	1.0E-05	0.075	2517 <sup>2</sup>	15354 <sup>3</sup>	483.5	499.5	520.3	543.1	566.2		
6.12	1.0E-05	0.100	1503 <sup>2</sup>	14358 <sup>3</sup>	482.3	498.4	519.7	542.5	567.2	597.1	
6.03	1.0E-05	0.250	1062 <sup>2</sup>	15168 <sup>3</sup>	483.1	498.9	519.8	542.7	567.9	596.8	
6.12	1.0E-05	0.500	792 <sup>2</sup>	14986 <sup>3</sup>	483.5	498.8	519.7	542.7	567.9	596.8	
6.09	1.0E-05	1.000	1029 <sup>2</sup>	13400 <sup>3</sup>	483.6	499.0	519.7	542.8	568.0	595.7	
2.40	1.0E-05	1.000	1794 <sup>A</sup>	7835 <sup>1</sup>	481.3	497.4	519.0	542.3	569.0		
3.55	1.0E-05	1.000	852 <sup>2</sup>	11022 <sup>3</sup>	482.1	498.7	519.6	542.5	567.8	601.5	
4.03	1.0E-05	1.000	1238 <sup>2</sup>	10904 <sup>3</sup>	483.3	498.8	519.8	543.1	568.2	596.0	
6.05	1.0E-05	1.000	1029 <sup>2</sup>	13400 <sup>3</sup>	483.6	499.0	519.7	542.8	568.0	595.7	
6.55	1.0E-05	1.000	1206 <sup>2</sup>	15066 <sup>3</sup>	483.4	499.2	519.8	542.5	568.1	599.0	
7.01	1.0E-05	1.000	1266 <sup>2</sup>	15258 <sup>3</sup>	484.2	499.6	520.2	543.0	568.3	599.2	
8.00	1.0E-05	1.000	912 <sup>2</sup>	14296 <sup>3</sup>	478.1	498.9	520.7	542.8	571.0		
2.44	1.0E-05	0.075	1887 <sup>A</sup>	8066 <sup>1</sup>	482.0	497.6	519.2	542.3	568.6		
3.13	1.0E-05	0.075	1002 <sup>A</sup>	8250 <sup>1</sup>	483.3	498.2	519.1	542.7	568.7		
4.10	1.0E-05	0.075	1281 <sup>2</sup>	12956 <sup>3</sup>	483.9	498.1	519.2	542.5	568.0		
4.74	1.0E-05	0.075	1263 <sup>2</sup>	12524 <sup>3</sup>	481.1	498.7	520.2	541.8	569.9		
5.22	1.0E-05	0.075	1035 <sup>2</sup>	15038 <sup>3</sup>	484.2	498.6	519.3	542.6	568.0		
6.05	1.0E-05	0.075	2517 <sup>2</sup>	15354 <sup>3</sup>	483.5	499.5	520.3	543.1	566.2		
7.37	1.0E-05	0.075	4698	29636	484.2	500.2	521.2	543.9	567.8	597.4	U-Hydroxide