Supporting information for: Potassium, calcium, and magnesium bridging of AOT to mica at constant ionic strength

Finian J. Allen,[†] Chris L. Truscott,[†] Philipp Gutfreund,[‡] Rebecca J.L. Welbourn,[¶] and Stuart M. Clarke[*,†]

[†]*Department of Chemistry and BP Institute, University of Cambridge, Cambridge, Cambs, CB2 1EW, UK*

[‡]*Institut Laue Langevin, 71 avenue des Martyrs, Grenoble 38000, France*

[¶]*ISIS Pulsed Neutron Facility, Harwell Science and Innovation Campus, STFC, Rutherford Appleton Laboratory, Didcot, Oxon, OX11 0QX, UK*

E-mail: stuart@bpi.cam.ac.uk

Supporting Information

Table S1: Fitted parameters for bare mica surface from $Mg(AOT)_2$ adsorption.

Material	Thickness	Roughness / Å
Silicon		4
Silicon oxide	12 Å	3
Glue	15 μm	18
Mica	15 μm	6

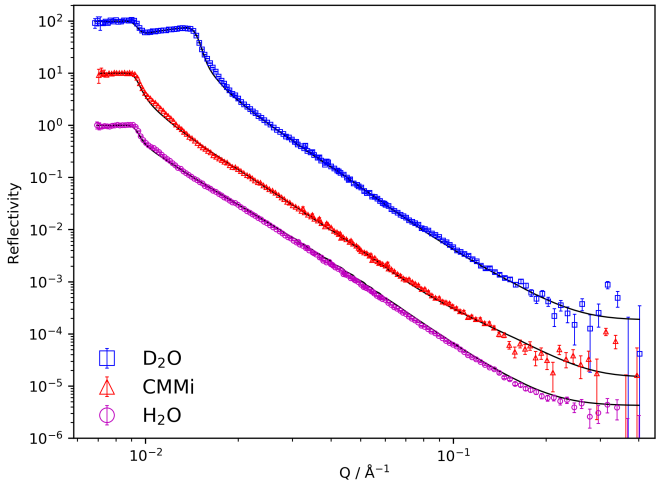

Figure S1: Reflectivity profiles of the bare mica surface used for the study of the Mg^{2+} ion. Curves offset for clarity.

Table S2: Fitted parameters for bare mica surface from KAOT adsorption.

Material	Thickness	Roughness / Å
Silicon		6
Silicon oxide	15 Å	6
Glue	9 µm	14
Mica	12 µm	3

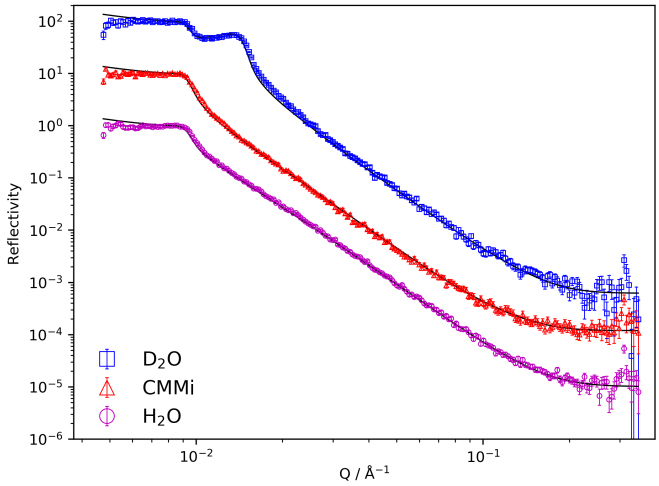

Figure S2: Reflectivity profiles of the bare mica surface used for the study of the K^{+} ion. Curves offset for clarity.