

A

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LB Media Preparation 12:50 PM (7 hours ago)
from Filter user from ISISBio blogs by giantslayer@oru.edu (David Bulger)

Step	Amount (g)	Material	Description
1	50	Tryptone	Added solid to 5-L beaker
2	25	Yeast Extract	Added solid
3	50	Sodium Chloride	Added solid
4			Added water up to 5-L mark mixing with magnetic spin-bar

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1281 - 1295 d-DPPG d-OmpF on D2O 35 mN m-1 + 17 ug ml Col N 4:41 AM (15 hours ago)
from Filter user from ISISBio blogs by (Luke Clifton)

1 ml of a 2mg ml Colicin N solution was injected beneath the barrier of the film and scan of the surface were conducted once / 1200 seconds and a PAT isotherm was conducted.

The NR data showed some increase in scattering after the addition of the colicin indicating protein adsorption to the interfacial film.

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Run 1279-1280 h-DPPG d-OmpF on NRW 35 mN m-1 4:41 AM (15 hours ago)
from Filter user from ISISBio blogs by (Luke Clifton)

A h-DPPG d-OmpF (S2) film was prepared and stabilized at 35 mN m-1. PA isotherms were run to check film quality (attached).

The film was then analysed by neutron reflection counting 60 uA. Run showed terrible stats after 30 uA so was aborted and the film attempted again (run 1280). After the addition of further S2 and recompression. Film was more stable on recompression by NR data still showed less scattering than was previously seen (run 1149).

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1260 - 1278 d-DPPG d-OmpF on D2O 35 mN m-1 + 17 ug ml Col N Jun 8, 2009 (21 hours ago)
from Filter user from ISISBio blogs by (Luke Clifton)

A d-OmpF d-DPPG monolayer was deposited on the surface and compressed to 35 mN m-1 (PA isotherms are attached). The surface was then analysed by NR (run 1261).

1 ml of a 2 mg ml Colicin N solution was then injected below the trough barriers and the SP and composition where then monitored. NR data collection was run on a loop taking 1 scan per 600 seconds. Runs 1262-1277

The surface showed a pressure increase of ~6 mN m-1 over the 1st 170 minutes and the NR data showed distinct fringes concurrent with the adsorption of hydrogenous material to the interface.

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B

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1260 - 1278 d-DPPG d-OmpF on D2O 35 mN m-1 + 17 ug ml Col N

A d-OmpF d-DPPG monolayer was deposited on the surface and compressed to 35 mN m-1 (PA isotherms are attached). The surface was then analysed by NR (run 1261).

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Google reader "NEUTRON-REFLECTION" VIA CAMERON NEYLON

Run 1245 - 1259 d-DPPG d-OmpF on D2O 35 mN m-1 + 3.5 ug ml PLA2
via Filter user from ISISBio blogs by (Luke Clifton) on 6/8/09

0.5 ml of a 1 mg ml PLA2 solution was added under the trough barriers and the surface pressure and surface composition were analysed vs. time.

Over the 1st 2 hours the surface pressure increased by 14 mN m-1, with the surface composition showing an increase in SLD consistent with previous results.

Once the PAT isotherm had plateau'd and the NR profile was unchanging the macro was stopped and a 30 uA scan was taken (1259).

Cameron Neylon
"Cameron Neylon" when posting publicly
STFC
Bath
About Cameron Neylon
Cameron is a biophysicist who has always worked in interdisciplinary areas and is a leading advocate of data availability. He currently works as Senior Scientists in Biomolecular Sciences at the ISIS Neutron Scattering facility at the Sc...
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1260 - 1278 d-DPPG d-OmpF on D2O 35 mN m-1 + 17 ug ml Col N
via Filter user from ISISBio blogs by (Luke Clifton) on 6/8/09

A d-OmpF d-DPPG monolayer was deposited on the surface and compressed to 35 mN m-1 (PA isotherms are attached). The surface was then analysed by NR (run 1261).

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