

Instructions for Making Surfactant-Free CNT Wetcake with NanoIntegris CNT Solutions

USE THESE INSTRUCTIONS IF:

You want to take our CNTs out of aqueous solution and re-suspend them in another solvent.

Required Equipment:

- Centrifuge

Required Materials/Chemicals:

- CNT's
- Acetone
- Methanol
- Water

Instructions

1. Mix 1 part off-the-shelf NanoIntegris CNT solution with 2 parts acetone. Allow solution to sit for 2-10 hrs.
2. Centrifuge solution for 1-10 minutes at 10,000-20,000 g. During centrifugation, the nanotubes will re-bundle and crash to the bottom of the centrifuge tube.
3. Decant the clear supernatant with a pipette and replace it with an equal volume of methanol or water. Mix vigorously.
4. Repeat steps 2 through 3, alternating between methanol and water each time.
5. After several (3-4) cycles, transfer the resulting surfactant-free CNT wetcake to a clean container.
6. (Optional). The CNTs can be easily re-suspended in another solvent or surfactant solution. (See Instructions for Dispersing NanoIntegris CNT Powders.)

WARNING

CENTRIFUGING FLAMMABLE LIQUIDS SUCH AS METHANOL CAN BE DANGEROUS. FAMILIARIZE YOURSELF WITH MANUFACTURER-RECOMMENDED SAFETY PROCEDURES BEFORE ATTEMPTING THIS PROCESS.