



DMF/NMP Molecular Trap™ Scavenging Packet **Product Fact Sheet**

Usage:

Molecular Trap packets (“*Traps*”) are shipped fully activated, in evacuated foil packets, and are ready for immediate use. Recommended usage is one medium **Trap** for bottles up to 1 liter and one large **Trap** for bottles up to 4 liters, 3-5 days prior to need. This usage assumes that the user has added the **Molecular Trap** packet to maintain a high purity solvent or solution; to purify a lower grade material, adding a second trap or waiting for 7-14 days prior to need is recommended.

Quality Assurance:

Each manufactured lot is use tested by quantifying amine removal from commercial sources of solvent. For the customer, product quality is assured by examining the package before use. First, by verifying that the packet vacuum is intact, as any loss of vacuum indicates air entry which would reduce the performance of the product; and second to check for any powder leakage inside the foil packet which would indicate a leak point in the membrane pouch.

Materials:

Molecular Trap packets are designed and manufactured to withstand long-term, in-situ, solvent exposure while maintaining full filtration of particulates. The **Traps** are made from an inert, micro-porous, electronics grade membrane material. The effective filtration of this membrane is 0.2 μ . The membrane material is tested safe for long term exposure to dimethylformamide (DMF) and N-methyl-pyrrolidinone (NMP).

Applications Suitability:

Molecular Trap packets are designed for use in both solid-phase and solution-phase peptide synthesis. They are safe for use in the wash and reagent bottles of automated peptide synthesizers, and have been functionally tested in most types of commercial synthesizers. Solvent pre-treated with **Molecular Trap** scavenger packets can be safely used to make up Fmoc-Amino Acid solutions. Studies have shown that these solutions can be stored for up to two weeks at room temperature with no detectable loss of the Fmoc protecting group.

Disposal:

Molecular Trap scavenger packets are non-hazardous as received. Once used however, they become contaminated with the chemicals and solvents they are exposed to and should then be treated as contaminated waste.