

The C₁₈ cartridges brought back from the field should be eluted with 500 μ l of an organic solvent suitable for the final analysis. Acetone and dichloromethane have satisfactory eluting properties for chemical warfare agents and may be used for analysis by gas chromatography or mass spectrometry. For NMR or liquid chromatography, methanol may be used.

The phosphonic acids are eluted from the NH₂ cartridges with 300 μ l methanol. The eluates may be analyzed directly by HPLC or by GC after derivatization of the acids.

The controls should be processed and analyzed in the same way as the samples in order to be sure that there has been no cross-contamination. The controls should also be spiked with any chemical warfare agent found to establish the recovery rate for the analytical method used.

The recommended operating procedures for quality control for each instrument should be followed.

3 CHEMICAL PRODUCTION FACILITIES

3.1 Verification of location

Upon arrival at a chemical facility which is to be inspected, the position (coordinates) should be checked against the information given by the requesting state party to ensure that the correct area is examined. This should be done by comparing the terrain with a map, or by using navigational aids such as the global positioning system (GPS).