



**CURRENT TESTING AVAILABLE FOR DETECTION AND QUANTITATION
 OF CHEMICAL TERRORISM AGENTS**

AGENT	METHOD	SPECIMEN TYPE	ACCEPTABLE SPECIMEN
Hydrogen Cyanide ▪ Cyanide salts ▪ Cyanogen chloride ▪ Isocyanide ▪ Cyanide producing compounds	GC/MS	Clinical	Current: whole blood Future: serum, fresh tissue, frozen tissue, fecal matter, medical examiner submissions
		Environmental	Current: drinking water (ion probe only) Future: swab/powder, drinking water samples, and gaseous samples
		Food	Current: None Future: Unknown
Barium Beryllium Cadmium Cobalt Cesium Molybdenum Lead Platinum Antimony Thallium Uranium Tungsten	ICP/MS	Clinical	Current: urine Future: whole blood, serum, pleural fluid, sputum, fresh tissue, frozen tissue, fecal matter, transtracheal aspirates, medical examiner submissions
		Environmental	Current: drinking water Future: swab/powder, drinking water and other liquids, gaseous samples
		Food	Current: None Future: Unknown
Arsenic Selenium	ICP/MS - DRC	Clinical	Current: None Future: urine (1Q06) , whole blood, serum, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: drinking water Future: swab/powder, water and other liquids, and gaseous samples
		Food	Current: None Future: Unknown



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Lead Thallium Cadmium Mercury Chromium Vanadium	ICP/MS - DRC	Clinical	Current: urine Future: whole blood (1Q06), serum, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: drinking water Future: swab/powder, water and other liquids, and gaseous samples
		Food	Current: None Future: Unknown
Arsenic Speciation	ICP/MS - DRC	Clinical	Current: None Future: urine (3Q06), whole blood, serum, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Chromium Speciation	ICP/MS- DRC	Clinical	Current: None Future: whole blood, urine (1Q06), serum, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Vanadium Speciation	ICP/MS- DRC	Clinical	Current: None Future: whole blood, urine (1Q06), serum, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Nerve Agents	LC/MS/MS	Clinical	Current: None Future: urine (4Q06), serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water (4Q06) and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown



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AGENT	METHOD	SPECIMEN TYPE	ACCEPTABLE SPECIMEN
Nerve Agents	GC/MS	Clinical	Current: None Future: urine (2Q06) , serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water (2Q06) and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Nitrogen Mustard	LC/MS/MS	Clinical	Current: None Future: urine (4Q06) , serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: swab/powder, drinking water and other liquids, gaseous samples
		Food	Current: None Future: Unknown
Ricin (Ricinine Biomarker)	LC/MS/MS	Clinical	Current: None Future: urine (4Q06) , serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: swab/powder, drinking water and other liquids, gaseous samples
		Food	Current: None Future: Unknown
Adamsite Riot/ Tearing agents	LC/MS/MS	Clinical	Current: None Future: urine, serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates medical examiner submissions
		Environmental	Current: None Future: swab/powder, drinking water and other liquids, gaseous samples
		Food	Current: None Future: Unknown



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AGENT	METHOD	SPECIMEN TYPE	ACCEPTABLE SPECIMEN
Lewisites	LC/MS/MS	Clinical	Current: None Future: urine (1Q07) , serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water (3Q07) and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
VOCs	GC/MS	Clinical	Current: None Future: urine (1Q07) , serum, whole blood (1Q07) , pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: None Future: drinking water (3Q07) and other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Pesticides	GC/MS	Clinical	Current: None Future: urine (1Q07) , serum, whole blood (1Q07) , pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: drinking water (GC only), 2Q06 (GC/MS) Future: other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown
Radioactive Materials ▪ Uranium	ICP/MS	Clinical	Current: urine Future: serum, whole blood, pleural fluid, sputum, fresh tissue, frozen tissue, transtracheal aspirates, medical examiner submissions
		Environmental	Current: drinking water Future: other liquids, swab/powder, gaseous samples
		Food	Current: None Future: Unknown