Compost analytical testing methodologies

2001 Approved STA Analytical Methods

STA Requiremer	TMECC Method Numl	Parameter	Method Name
YES	03.09-A	Moisture Content	TOTAL SOLIDS AND MOISTURE, % wet basis
YES	04.01-A	TOC	COMBUSTION WITH CO2 DETECTION, Carbon, % dw basis
YES	04.02-D	TN	TOTAL NITROGEN BY COMBUSTION
YES	04.03-A	P	TOTAL PHOSPHORUS, Determined as elemental P, reported as P2O5
YES	04.04-A	K	TOTAL POTASSIUM, Determined as elemental K, reported as K2O
YES	04.05	Ca	
YES	04.05	Cl	
YES	04.05	Mg	
YES	04.05	Na	
YES	04.10-A	ECe (soluble salts)	1:5 SLURRY METHOD, MASS BASIS
YES	04.11-A	pH	1:5 SLURRY pH
YES	05.05-A	Bioassay	EMERGENCE AND RELATIVE GROWTH (DIRECT SEEDING): Seedling germination and vigor, cucumber seeded in 50:50 blend of vermiculite:compost, %
YES	05.07-A	OM	LOSS ON IGNITION ORGANIC MATTER METHOD, ashed at 550C for 2h, % dw basis
YES	05.08-B	Respirometry	CARBON DIOXIDE EVOLUTION RATE, mg CO2-C per g (TS, OM) per day
OPTIONAL	04.02-B	NO3-N	
OPTIONAL	04.02-C	NH4-N	
OPTIONAL	04.06	As	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Cd	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Cu	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Hg	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Mn	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Mo	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Ni	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Pb	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Se	(EPA 503 regulated contaminant)
OPTIONAL	04.06	Zn	(EPA 503 regulated contaminant)
OPTIONAL	05.02-A	C:N ratio (2 methods)	CARBON TO NITROGEN RATIO, unitless ratio
OPTIONAL	05.02-E	Cd:Zn ratio	CADMIUM TO ZINC RATIO, unitless ratio
OPTIONAL	07.00	Pathogens	(EPA 503 regulated contaminant) Background Information
OPTIONAL	07.01	Pathogens	(EPA 503 regulated contaminant) COLIFORM BACTERIA, MPN per g dw basis
OPTIONAL	07.02	Pathogens	(EPA 503 regulated contaminant) SALMONELLA
OPTIONAL	07.03	Pathogens	ENTEROCOCCI
OPTIONAL	07.04	Pathogens	PARASITIC HELMINTHS
OPTIONAL	07.05	Pathogens	RECOVERY AND ASSAY OF TOTAL CULTURABLE VIRUSES
NO	04.07	Ag	
NO	04.07	Ba	
NO	04.09	CEC	CATION EXCHANGE CAPACITY FOR COMPOST
NO	04.05	Co	
NO	04.06	Cr	
NO	04.05	Fe	
NO	- no method in TMECC	PO4-P	
NO	04.05	S	
NO	- no method in TMECC	saturated paste percentage	
NO	04.07	Sb	
NO	04.05	SO4-S	
NO	04.06	Sr	Strontium
NO	04.08	TIC	INORGANIC CARBON
NO	04.06	V	Vanadium
NO	04.03-B	Water-Soluble P	soluble elements (<0.45 micron) by ICP from a 1:20 extract