



Royal Gold Coco LLC

1703 Giuntoli Ln Suite B

Arcata, CA 95521

707-822-4653 ext 114

lab@royalgoldcoco.com

www.royalgoldcoco.com/lab

Soil Analytical Methods	Extraction & Preparation	Method	Reference
pH	DI Sat Paste	Saturation Paste Soil pH	WREP S-1.0 WREP S-1.10
Buffer pH for Native Soil		Sikora Buffer for Lime Requirement	by Frank Sikora
EC	DI Sat Paste	Saturation Paste Soluble Salts EC	WREP S-1.0 WREP S-1.20
Organic Matter %		Loss on Ignition	WREP S-9.20
Water Soluble Nitrate	DI Sat Paste	Chromotropic	WREP S-1.0 WREP S-3.30
Water Soluble Phosphate	DI Sat Paste	Ascorbic Acid	WREP S-1.0 WREP S-4.10
Water Soluble Boron	DI Sat Paste	Azo-H	WREP S-1.0 WREP S-1.50
Water Soluble Ca, Mg, Na, K	DI Sat Paste	Atomic Absorption	WREP S-1.0 WREP S-1.60
Zn, Mn, Fe, Cu for Native Soil	DTPA-TEA	Atomic Absorption	Warncke WREP S-6.10
Zn, Mn, Fe, Cu for Potting Soil	DTPA	Atomic Absorption	Warncke in NCR WREP S-6.10
Chloride	DI Sat Paste	Titration	WREP S-1.0 Chloridometer
Total Plant Available Nitrate	Calcium Sulfate	Chromotropic	WREP S-3.30
Total Plant Available Phosphate	Sodium Bicarbonate	Ascorbic Acid	WREP S-4.10
Total Plant Available Ca, Mg, Na, K	Amminium Acetate	Atomic Absorption	WREP S-5.10
CCE		Alkaline-Earth Carbonates by Gravimetric Loss of Carbon Dioxide	UC Davis Method 440
Water Holding Capacity for Potting Soil			Containers and Growing Media, (adapted by Robert R. Tripepi)
Water Holding Capacity for Native Soil			WREP S 1.00

***Applicable methods calibrated with the Agricultural Laboratory Proficiency Program Triannually (Spring, Summer, Fall)