# Soil Report

## Full Nutrients

Royal Gold Coco LLC
1703 Giuntoli Lane Suite B
Arcata, CA 95521
707-822-4653 ext 114
Monday - Friday 9 a.m. - 4 p.m.
lab@royalgoldcoco.com
www.royalgoldcoco.com/lab

| Customer Contact: | |
|---|---|
| Name: Jane Doe | |
| Phone: 707-630-4173 | |
| Email: erin@royalgoldcoco.com | |
| Date Received: 12/04/2025 | |
| Report date: 12/08/2025 | |
| Report Approved by: ZM | QC Approved by: LS |

| Analysis Type | Result | Optimal Range |
|---|---|---|
| pH | 7.2 | 6 - 7 |
| Electrical Conductivity * *EC* (dS/m) | 0.50 | 0.5 - 2 |
| Bulk Density (g/cm$^3$) | 0.63 | 1.1-1.5 |
| Buffer pH | | |

**Sample Info:**

Received by: IA

Sample Name: Garden

Lab ID: 8410 nf2

**Results at a Glance:**

See Page 2 for complete Interpretations & Recommendations

### Soluble Plant Available Macronutrients

| Analyte Type in ppm | Result | Optimal Range (ppm) |
|---|---|---|
| Calcium (Ca) | 28 | 80 - 400 |
| Magnesium (Mg) | 10 | 30-70 |
| Potassium (K) | 90 | 60-200 |
| Sodium (Na) | 8 | 0 - 80 |
| Nitrate ($NO_3^-$-N) | 36 | 70 - 200 |
| Phosphate ($PO_4^{3-}$-P) | 4 | 15 - 25 |

### Micronutrients

| Analyte Type in ppm | Result | Optimal Range (ppm) |
|---|---|---|
| Zinc (Zn) | 23 | 14 - 30 |
| Manganese (Mn) | 3 | 8 - 30 |
| Copper (Cu) | 2 | 2 - 30 |
| Iron (Fe) | 37 | 25 - 50 |
| Boron (B) | 0.6 | 0.5 - 2.5 |
| Chloride ($Cl^-$) | ND | <45 |

### Total Plant Available Macronutrients

| Analyte Type in ppm | Result | Optimal Range (ppm) |
|---|---|---|
| Calcium (Ca) | | 2000-4000 |
| Magnesium (Mg) | | 100-500 |
| Potassium (K) | | 150-800 |
| Sodium (Na) | | See ESP |
| Nitrate ($NO_3^-$-N) ppm | | |
| Phosphate (PO43--P) ppm | | |

### Calculated Percent Exchangeable Cations

How Calcium, Magnesium, Sodium, and Potassium relate to each other. These will add up to 100%. By increasing one, others will decrease. If the percentages differ greatly from the given optimal ranges see comments for further instruction.

| Analyte Type in Percent | Result | Optimal Range (%) |
|---|---|---|
| Calcium (Ca) | 21 | 45 |
| Magnesium (Mg) | 7 | 9 |
| Potassium (K) | 66 | 38 |
| Sodium (Na) | 6 | <5 |

### Calculated Calcium to Magnesium Ratio

| Analyte Type | Result | Optimal Ratio |
|---|---|---|
| Ca:Mg | 1.8 | >3 |

### Calculated Salinity

| Analysis Type | Result | Optimal Range |
|---|---|---|
| SAR (sodium absorption ratio) | | <13 |
| ESP (exchangeable sodium percent) | | <15% |

### Organic Matter Panel

| Analyte Type in ppm | Result | Optimal Range |
|---|---|---|
| Estimated Nitrogen Release *ENR* (lb/acre) | 342 | 80-150 |
| Organic Matter (%) | 15 | 3-5 |
| Organic Carbon (%) | 9 | 8 - 20 |

ND - No Detection - This means there was not a detected amount of this substance in your sample.