



When purchasing commercial growing media, structural consistency, physical aeration, and chemical safety are absolute prerequisites for crop performance. This technical guide explains the metrics listed on our quality analysis reports for the **Greencoir Coco Perlite 70/30 Mix** and outlines how they align with international RHP certification criteria to protect root zone dynamics and maximize yield predictability.

1. CHEMICAL ANALYSIS (AS PER DUTCH RHP METHOD 1:1.5 V/V)

The chemical analysis validates that the coir base has been thoroughly washed and buffered according to rigid RHP standards before blending with premium perlite. These benchmarks minimize root zone interference, giving growers complete control over their fertigation recipes.

- **EC (Electrical Conductivity - 0.63 mS/cm):** Measures the total background soluble salts. An EC of 0.63 mS/cm strictly complies with premium RHP criteria. This ensures a clean, predictable substrate slate from day one, allowing immediate root expansion without risking high-salinity vegetative shock or crop stress.
- **pH (6.33):** Reflects the exact acidity/alkalinity baseline of the 70/30 blend. Situated optimally at 6.33, this value perfectly falls within the target range for high-value horticultural crops, facilitating unhindered uptake of critical macro and micronutrients.
- **Extraction Methodology: In Demi vs. In $BaCl_2$:**
 - *In Demi (Demineralized Water extract):* Indicates the immediate, highly-soluble nutrients readily active in the root zone right after transplanting.
 - *In $BaCl_2$ (Barium Chloride extract):* Replaces and measures the reserve cations bound to the physical coir complexes. This confirms long-term stability and guarantees that standard RHP buffering requirements have been fully satisfied.
- **The "Diff of Na & K" (Sodium & Potassium Difference):** Because raw coconut coir inherently carries excessive Sodium (*Na*) and Potassium (*K*), RHP guidelines require premium buffering. Our low differential data confirms that unwanted salts have been fully displaced by structural Calcium (*Ca*), maintaining a perfectly stable, non-locking substrate matrix.

The RHP Certification Advantage

The RHP quality mark guarantees that the substrate satisfies stringent chemical and physical demands, ensuring complete freedom from weed seeds, pathogens, and heavy metals from the source to delivery.

2. PHYSICAL ANALYSIS (AS PER EN 12580 METHOD)

The physical breakdown verifies the actual air-to-water ratio and filling volume consistency for the 70/30 mix, ensuring uniform drainage layouts throughout the entire grow facility.

- **Volume at Filling (lit):** Organic substrates naturally change in total mass depending on ambient moisture retention. To prevent discrepancies, RHP and European standards utilize precise volume calculations rather than raw weights. Testing multiple random batch samples guarantees an accurate, verifiable yield.
- **70/30 Blend Homogeneity (Average 53.8 Liters):** Adhering to the official EN 12580 standard guarantees that your media maintains its physical integrity without being artificially fluffed or overly compressed. The integrated 30% perlite structure ensures premium air-filled porosity, optimal drainage, and consistent pot-filling volume across every production row.

Operational Excellence & Drainage Control

The precise 70/30 ratio preserves an ideal structural framework inside your pots, slabs, or grow bags. This means uniform dry-back windows, consistent cycle times, and predictable runoff performance across your cultivation workspace.

Quality Assurance Policy: *Greencoair products are verified through stringent batch testing workflows to comply with premium RHP quality regulations. If any physical or chemical deviation is identified upon receipt at your facility, please report it to our technical service team within 10 days of delivery for immediate batch evaluation.*