

# Compostable Tip Racks

## Reduce Plastic Lab Waste



### Biodegradable and Earth Friendly

EarthRack's lid and base are composed of a biodegradable bamboo and sugar cane cellulose material that can be composted at municipal facilities. If deposited in a landfill, they will biodegrade.



### Reduces Plastic Waste

With up to 75% less plastic than conventional racks, adopting EarthRack can help organizations meet their sustainability objectives.



### Carbon Neutral

When composted, incinerated or deposited into a landfill, EarthRack's cellulose components contribute no net increase in atmospheric CO<sub>2</sub>. Carbon absorbed during initial plant growth is simply returned to the atmosphere.



### BioClean Green

A comprehensive testing regimen specifically designed to assure the cleanliness of pipette tips packaged in sustainable tip packaging materials derived from cellulose.



### Rainin EarthRack™

#### Biodegradable Pipette Tip Racks

Rainin EarthRack is an ideal solution for laboratories working to reduce plastic waste. The pipette tip rack is made primarily from refined cellulose that is easy to compost and is biodegradable. Because the small, recyclable polypropylene tip deck is the only plastic component, EarthRack significantly reduces plastic use and waste.

# Reduce Plastic Waste

## Biodegradable, compostable components

### EarthRack is BioClean Green!

Rainin EarthRack products are certified to be BioClean Green – a comprehensive testing process and specifications developed specifically for cellulose-based tip racks.

Because EarthRack is derived from natural, plant-based materials, BioClean Green employs a broader, more intrusive quality testing procedure to assure the absence of biological contaminants. For example, the use of cellulose requires an additional test for chloroplast DNA. Testing for DNase and RNase has been expanded to include three separate tests for each nuclease for complete assurance of tip performance.

EarthRack cellulose materials and tips are subjected to individual testing procedures. Tips are tested after exposure to the interior of the EarthRack product for the presence of biological contaminants.



### Ordering Information

| MT-Order No.    | Description            |  | Max. Capacity |
|-----------------|------------------------|--|---------------|
| <b>30807966</b> | ER LTS 20µL F 960G/10  | 960 tips in 10 racks, sterilized, filter | 20 µL         |
| <b>30807967</b> | ER LTS 200µL F 960G/10 | 960 tips in 10 racks, sterilized, filter | 200 µL        |
| <b>30808038</b> | ER LTS 1000µL F 768G/8 | 768 tips in 8 racks, sterilized, filter  | 1000 µL       |

### EarthRack Compatibility

EarthRack is composed largely of sterilized cellulose fibers that may occasionally shake loose during transit. EarthRack tips have been subjected to extensive, applications-based testing and consistently demonstrate excellent performance in a wide range of enzyme-based applications. Full compatibility with fluorometric assays and real-time PCR optics has also been demonstrated. Should the potential presence of cellulose fibers be incompatible with a particular application, Rainin TerraRack® and Green-Pak® SpaceSaver® are great, non-cellulose alternatives that also significantly reduce plastic lab waste.



### Specifications

#### BioClean Green Test Limits of Detection (LODs)

|                         |                         |
|-------------------------|-------------------------|
| Human DNA               | <0.32 pg                |
| Bacterial DNA           | <0.032 pg               |
| Plant (chloroplast) DNA | <0.032 pg               |
| DNase (three tests)     |                         |
| • Gel electrophoresis   | ≤10 <sup>-7</sup> KU/µL |
| • Kunitz Assay          | ≤10 <sup>-4</sup> KU/µL |
| • qPCR                  | ≤10 <sup>-6</sup> KU/µL |
| RNase (three tests)     |                         |
| • Gel electrophoresis   | ≤10 <sup>-6</sup> KU/µL |
| • Kunitz Assay          | ≤10 <sup>-6</sup> KU/µL |
| • RT-qPCR               | ≤10 <sup>-6</sup> KU/µL |
| Endotoxin (LPS)         | ≤0.01 EU/mL             |
| Protein                 | <2 ng/tip               |
| Protease                | <500 ng/mL              |
| PCR inhibitors          | None detected           |

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