

# Medicoir®



Medicoir is a professional standard growing media designed by experts in the coir industry. With over a decade of producing exceptional quality coir products for the commercial fruit and vegetable industry on a global level, the producers of Medicoir have the experience and knowledge needed to manufacture the best coir fiber blend for the cannabis industry.

Our aim is to provide growers with a top-quality, sustainable product, giving plants the best start and growers peace of mind. We offer a wide range of products to suit a variety of different systems and make all our products to order so they are tailored exactly to your needs.

Kalahari Connections
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**Authorized distributor of Medicoir products in Canada**

# Cocopeat mixes

**Medicoir has developed a range of mixes for cannabis crops to suit the varying requirements of variety, climate, grower preference and existing systems.**

Fully washed and buffered, with calcium nitrate added during the production process giving a low EC, ready to use product, offering the ideal start for young plants. The specially chose Ultra Particle can be thoroughly buffered throughout and the stable structure provides excellent drainage.

Also a fully washed and buffered mix, this product offers ease of steering and a slightly higher water content. The coir particle mix has all of the fine particles removed to offer a good level of drainage.

For growers looking for an organic option, this product is super washed, but not buffered with calcium nitrate. It has all of the fine dust particles removed so offers a reliable level of drainage and if supplied with packaging, we use bio-degradable plastic.

A clean product with elevated calcium levels to give young plants the best possible start. The finer mix means that young roots have easy access to nutrients and encourages healthy growth from the beginning.

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# Cocopeat mixes

| Product | Composition | Particles <2mm | EC* (ms/cm) | pH | Buffering |
|---|---|---|---|---|---|
| Medicoir Premium | Ultra Particles + Cocopeat | Removed | <0.5 | 5.6 – 6.8 | Buffered |
| Medicoir Classic | 100% Cocopeat | Removed | <0.5 | 5.6 – 6.8 | Buffered |
| Medicoir Organic | 100% Cocopeat | Removed | <1.2 | 5.6 – 6.8 | Washed |
| Medicoir Propagation | 100% Cocopeat | Partly | <0.5 | 5.6 – 6.8 | Buffered |

*When measured with 1:1.5 method






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# Cocopeat products

**Medicoir has developed a variety of different products to suit growers and their systems. Holes can be cut in plastic at no extra cost and plastic is available either recyclable or bio-degradable.**



Open Top Containers

Open Top Containers, also known as OTC's, are the most popular system used by professional cannabis growers. The depth of the bag offers ample room for roots to grow freely and allows for drainage of excess water away from the roots.



Lay-Flat Bags

Lay-flat bags give the option to have more than one plant in the same growing media. The low height offers stability and can be used on a variety of different systems. Having plant holes cut only where needed, means that there is less open surface of the growing media and therefore limiting evaporation and entry of airborne pests and diseases into the root zone.



Bulk Products

For growers who have existing rigid containers, are looking for coir substrate for propagation, or are thinking of making their own substrate mixes. We can supply bulk products or also specific sizes blocks with no plastic to fit perfectly into all common pots, containers and troughs to avoid handling of bulk material.



Grow Cubes

Designed specifically for the propagation of young plants, grow cubes are surrounded by a degradable netting that allow the young roots to penetrate into the growing media below. Holes can be drilled in the cube to offer ease of planting and varying sizes are available to suit your requirements.

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# Cocopeat products

| Product | Size | Available mixes | Loading – 24 pallets per container |
|---|---|---|---|
| OTC | 10L | Premium / Classic / Organic | 1,000 / pallet |
| OTC | 7L | Premium / Classic / Organic | 1,300 / pallet |
| Lay flat bag | 100x20x8cm | Premium / Classic / Organic | 550 / pallet |
| Lay flat bag | 50x20x8cm | Premium / Classic / Organic | 1,100 / pallet |
| Lay flat bags (other) | Length: Up to 120cm<br>Width: 15/18/20/22/24cm<br>Height: As required | Premium / Classic / Organic | Upon request |
| Bulk | To fit all common pots and troughs | Premium / Classic / Organic / Propagation | Upon request |
| Bulk | 90L slab | Premium / Classic / Organic / Propagation | 200 / pallet |
| Grow Cubes | 10x10cm / 10x15cm<br>15x15cm / 18x18cm<br>All with height as required | Propagation | Upon request |

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## How is coir made?

- Coconuts are harvested every 30-45 days. The nut goes to the food and cosmetics industry and husk is taken for processing.
- Some of these husks will be cut directly to make husk or pith chips which can later be mixed with the coir to give more aeration.
- Other husks will be taken for processing where the long fibres are taken to make ropes, brushes, etc. The remaining pith and short fibre is used in coir.
- Coir has naturally high levels of Na, K, Cl and Bo so thorough washing with fresh water is vital.
- Washing can be followed by “buffering” where required.
- Coir must then be dried to have a moisture content of below 20%
- This enables sieving to remove all of the fine particles, which can cause drainage problems if left in the substrate.
- The coir particles can then be mixed in the percentages required, compressed and packaged for transport.
- Compressed products for easy transport, storage and handling.

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## What is buffering?

- Buffering takes place after the coir has been washed in fresh water to reduce levels of Na, Cl, K and Bo.
- It is the process of soaking coir in a calcium nitrate solution to further displace unwanted elements and increase levels of calcium.
- Optimum buffering would give:
  - Ca = minimum 4 mmol
  - K = between 1 and 2 mmol
  - Na = maximum 1.5 mmol
- Pre-buffered products mean that all of the substrate is buffered evenly across the growing area
- Aids early establishment and healthy root growth



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## Benefits of coir




- Clean, open structure allows plant to build up a good root system leading to more roots, more flower and more yield
- Removing of dust (<2mm particles) means slower decomposition and better drainage.
- Coir is very forgiving, if it dries out it can quickly and easily be wetted up again. Over watering will quickly drain.
- With buffered products, the grower can immediately start to reuse drain water if required.
- Natural and sustainable product, easy to dispose of or re-use.
- Propagation cubes with degradable netting give easy access to substrate for early establishment.
- All plastic is recyclable or bio-degradable.
- Technical support is available.



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## Sustainability & Responsibility

- At the moment only 70% of coconut husk in Sri Lanka is used. India has much, much more available.
- There are huge markets all over the world that remain untouched for coir production.
- There is a lot of research on new varieties to increase yields and picking speeds.
- At Medicoir, all water used to wash and buffered is put through a water treatment plant to protect the local environment.
- Changing weather patterns made drying coir challenging in recent years, Medicoir has invested in the first mechanical drier of its kind to guarantee continuous supply and quality.

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