



MIDWEST GROW KITS

Midwest Grow Kits Revision 4.1; 2018

How To Use Spawn Bags

This guide will show you how to properly Inoculate and Grow your Rye or 5-Grain Spawn Bags

⇒ Each bag has a self-healing injector site, which closes after you pull the needle out.

⇒ The white square filter patch located towards the top of the bag allows proper gas exchange but will keep contaminants out

Before you start

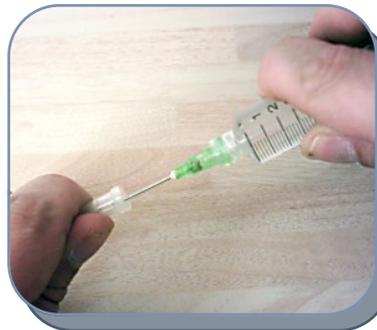
It is important to make sure that all spore injecting activities are done in the cleanest environment possible. Please use one of our sterile spore injection techniques located in our grow guide. Treat injecting the spawn bag just like a substrate jar.

Inoculating

1. Wipe the syringe needle and the injection site (black spot) with an alcohol swab



2. Pull the syringe needle cover away from the syringe



3. Flame the needle until it becomes red hot, wait 3 seconds for it to cool. Push the needle about 1/2 inch into the bag and inject about 1-2 cc's of spores. Pull the needle half way out and angle it in a different direction and inject another 1-2 cc's of spores. We recommend a total of 3-5 cc's of spores per spawn bag.



⇒ Make sure you inject in multiple locations to help spread your spore solution around.



⇒ Unroll the spawn bag and make sure the filter patch is upright. Slowly pull the two sides apart and be careful not touch the white filter. The goal is to Provide a channel or path from the grain to the filter.



⇒ Place your spawn bags in a warm, dark location (75-81 degrees) and leave to incubate. Unlike jars, Spawn bags colonize from the inside out so you will most likely won't see any mycelium growth for 7-14 days.



⇒ This is a typical spawn bag at day 14-17



⇒ (Optional) Between 14-17 days you can break up the bags with your fingers to spread the mycelium around. After spreading the white mycelium around, gently re-pack the grain to its original shape.

⇒ This step is only optional as you need to be careful not to break them up too much and destroy the mycelium network. ***We only suggest this step when you have very slow growing bags. This method works best on the Rye bags. Our 5grain bags contain very small grains and you must be extra careful and make sure you reform the bag to its original shape and avoid leaving air gaps in the grain.***



⇒ Complete colonization may take 30-45 days depending on the species and what temperature you incubate at. Unlike jars, the speed that spawn bags germinate and colonize may have a much greater variance. The photo to the right is a 5grain spawn bag full colonized and ready to move to the next step!



Typical Growth chart of a Spawn Bag

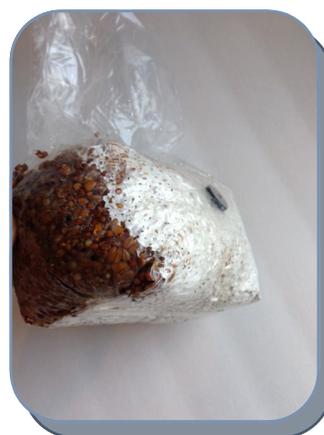
Day 14



Day 25



Day 28



Day 35

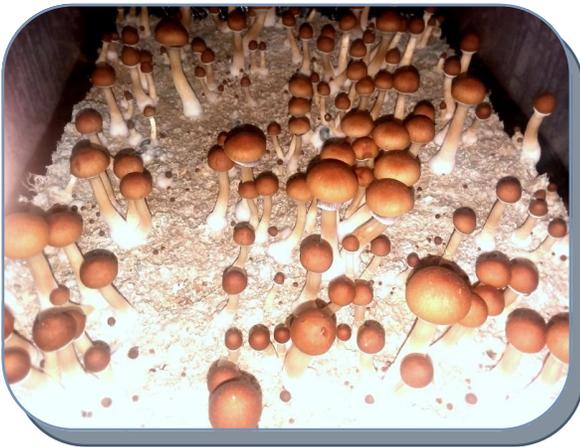


Fruiting Your Spawn bags

There are 3 different ways to fruit spawn bags. The most popular and recommended way, is the bulk casing method. The yield is four to five times more than the other methods of fruiting. Your second best option for fruiting would be to use a fruiting chamber with perlite like you would the substrate jars. The last option is to fruit directly in the bag.

Bulk Casing Method

This method is typically an advanced way of growing, but using our premade casing mix has made this process easier and more convenient! This method involves simply breaking up the fully colonized spawn bag into small pieces and mixing it with the casing in the appropriate container (see ratios on bulk casing guide). The spawn and casing re-colonize and form a solid large cake. This provides five times the surface area and results in a much larger yield. This has now become the most popular method for first time spawn bag growers. If you choose this method, please refer to the bulk casing guide on our guides page.



Fruiting in a Humidified Chamber

The second most popular way to fruit your spawn bags would be to use a container with dampened perlite (white volcanic rock). This is the method our substrate jar kits use. You will need vermiculite in this method to provide moisture to the cake and keep it hydrated.

- ⇒ Start by removing the colonized grain from the bag. Dunking is not recommended with the spawn bags because they will not absorb water directly into the grain. This is why you need vermiculite.
- ⇒ Place a piece of foil on top of the perlite. The foil should be about one inch larger than the cake on all sides.
- ⇒ Place a 1cm layer of vermiculite on the foil. Use a spray bottle and moisten the vermiculite enough so it's saturated, but you don't want any standing water. Use spring or bottled water for misting.
- ⇒ Place the spawn cake on the vermiculite and add another 1cm layer of vermiculite on top. Spray top layer with water to dampen. You will need to keep the vermiculite damp by misting daily.
- ⇒ It can take a few weeks for mushrooms to form. There are typically no set flushes for this style of growing, the mushrooms will just grow sporadically for the following weeks.

Fruiting in the Bag

The last method is fruiting directly in the bag. This method is easiest, but typically yields the least. You will need vermiculite for this method to keep the grains hydrated.

- ⇒ Cut the top of the bag off. Cut above the white filter patch.
- ⇒ Remove the spawn cake. Add a 1cm layer of vermiculite in the bottom of the bag, then use a spray bottle to moisten the vermiculite enough so it's saturated, but you don't want any standing water. Use spring or bottled water.
- ⇒ Put the spawn cake back in the bag and add another 1cm layer of vermiculite on top of the spawn cake. Spray with water like you did the first layer.
- ⇒ Fold the top of the bag over and use a binder or paper clip to keep it closed.
- ⇒ Open the bag twice a day for a few minutes to allow fresh air exchange. Mist the vermiculite as needed to ensure it stays hydrated.
- ⇒ It can take a few weeks for mushrooms to form. There are typically no set flushes for this style of growing, the mushrooms will just grow sporadically for the following weeks.
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Additional Question? Please email us at mgkhelp@gmail.com or call us (800) 921-4717 Mon-Friday 11am-5pm CST