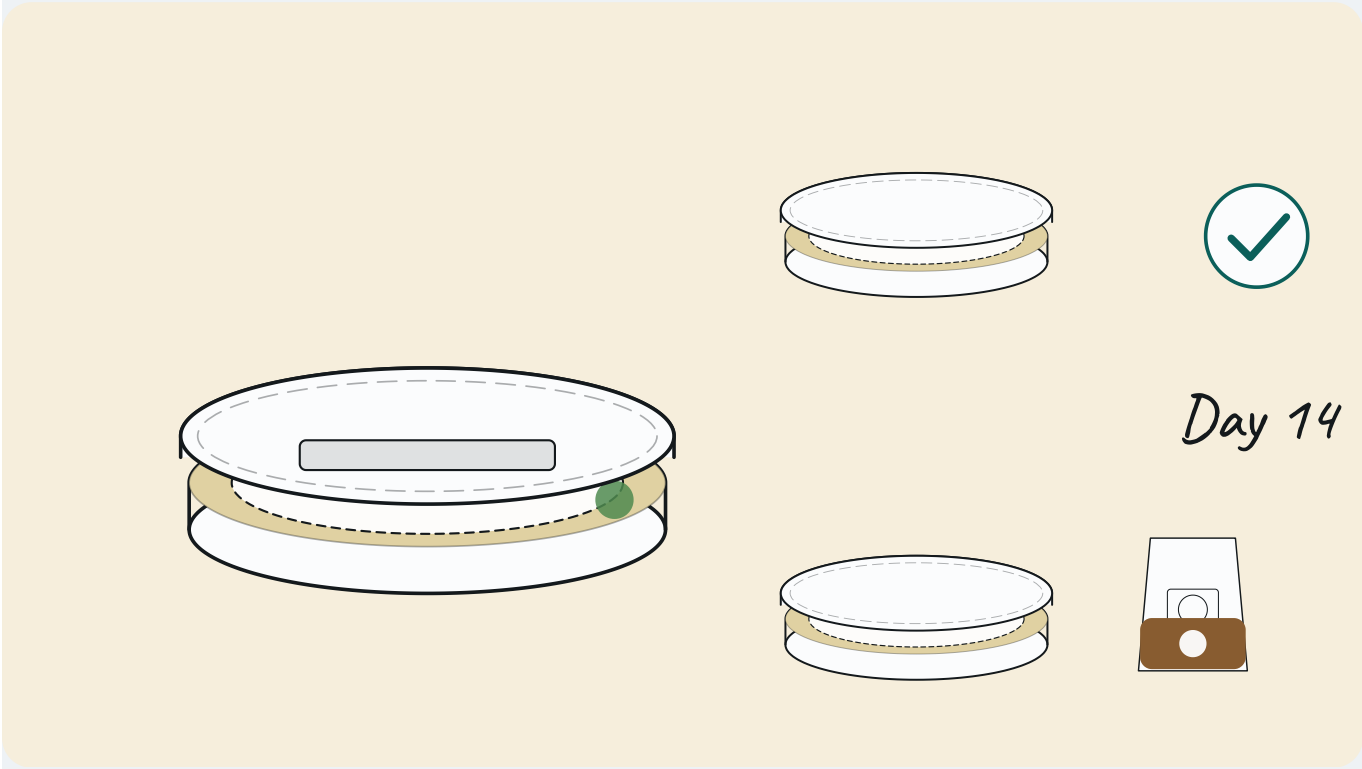
Open Air Agar Pots 210ml with 20ml MEA, Reusable, Pack of 2

From sporesyringes.co.uk/lab-supplies/agar-pots-open-air-mea-ready-to-use, where the drawings move and the page is kept current.

Scan for this page

HOW A PLATE IS INOCULATED AND GROWN



1 In still air, lid open a crack, never off

2 One drop from the spore syringe onto the centre; the needle never wiped or heated

3 Lid on, tape the edge

4 Turned upside down so nothing drips; dark, 22 to 23 °C

5 Days 7 to 14: white mycelium expands from the drop across the plate

6 Any colour is contamination: take only clean white growth, well away from it

7 A scalpel cuts a section of the clean mycelium onto a fresh plate, where it expands again

8 Once more onto a third plate

9 The last section goes into a grain bag

About Open Air Agar Pots 210ml with 20ml MEA, Reusable, Pack of 2

A reusable 210 ml pot with 20 ml of malt extract agar set in the bottom, sterilised and ready to use, poured in the UK. Made for agar work without a full lab: the deep pot is opened briefly in open air, one at a time, and washed, refilled and re-sterilised when you are done.

What it is for

The everyday jobs of agar work on a gourmet or functional culture: checking a liquid culture for contamination before it goes into grain, selecting and transferring the cleanest sections of growth, cloning tissue from a good fruit body, and holding a culture on agar between projects. The 20 ml of malt extract agar is the same medium as our plates; the depth of the pot keeps the surface further from the opening than a Petri dish does.

How to use it

Wipe the outside and your hands with isopropyl alcohol, open the lid only as long as the transfer takes, place the sample on the agar with a sterile loop or scalpel, and close it. Label the lid, keep the pot upright at 24 to 27 °C and check it daily. Move clean, vigorous growth on to a fresh pot, a plate or a liquid culture jar.

Reusing the pot

Once a culture is finished with, scrape out the agar, wash the pot in hot soapy water, rinse, and pour it fresh with 20 ml of medium from the agar calculator's recipes. Sterilise the refilled pot in a pressure cooker with the lid loose, then tighten once cool.

Handling and storage

Keep unused pots refrigerated at 2 to 8 °C and use within eight weeks. Let a pot reach room temperature before opening so condensation does not form on the agar. Discard any pot that grows anything before you have used it.

Medium	Malt extract agar (MEA), 20 ml
Pot	210 ml, screw lid, reusable
Pack	2 pots (4 and 8 available)
Sterility	Poured and sealed under sterile conditions
Storage	Refrigerate at 2–8 °C
Shelf life	Up to 8 weeks refrigerated
Intended use	Gourmet and functional mushroom cultures and teaching

Agar mixing, sterilising and pouring guide

The calculator, with the mixing, sterilising and pouring steps for any number of plates, is on the site at https://sporesyringes.co.uk/agar-calculator.

Injection rules

Almost every contaminated bag we have ever replaced went wrong in the thirty seconds between opening the syringe and finishing the injection. The syringe, the needle and the bag all arrive sterile; the job is to keep them that way for those thirty seconds. These are the rules our sterile guarantee asks you to follow, and they apply to gourmet liquid cultures and spawn bags alike.

Rule 1: never heat, flame or wipe the needle

Every needle arrives gamma-irradiated sterile in its own wrapper, and the syringe casing and end cap keep the contents sterile. Flaming a needle leaves soot and a hot tip that kills what it touches; wiping it with alcohol drags whatever was on the wipe onto the one part that goes inside the bag. Use the needle straight from the wrapper. There is a sticker on every bag saying the same thing.

Rule 2: seat the needle properly

A loose needle is the other big cause of contamination. Push the needle hub onto the Luer lock and give it a quarter turn until it stops. It should not wobble. If it does, take it off and seat it again before you go anywhere near the bag.

Rule 3: work still, not clean

You do not need to sterilise the room. You need still air. Close the windows and doors, turn off fans and heating, and wait a minute for the air to settle. Wash and dry your hands, then keep them away from the needle. A still air box helps but is not required for a bag with a self-healing port.

Rule 4: go through the port, once

Every bag has a self-healing injection port. Push the needle through the centre of the port at a slight angle, inject, and withdraw in one movement. Do not inject through the plastic beside the port, do not make a second hole, and do not open the bag to "check" the grain.

Rule 5: how much, and where

Use the amount the product page for your bag gives, and inject all of it in one place. Do not move the needle tip about inside the bag and do not wind the needle round in the port: that can damage the port. The liquid is spread afterwards, not with the needle. An Inject-and-Forget bag is mixed straight after injection. A grain-based bag is tilted so the solution runs across the whole base of the bag.

Rule 6: wipe the port, and nothing else

Every bag comes with a small alcohol swab. Just before you inject, wipe the injection port with it, once, and give it a few seconds to dry. That is the only thing on the outside of the bag that gets wiped: not the needle, not the rest of the bag, and nothing afterwards. The port reseals itself; do not tape over it and do not wash the bag.

Rule 7: one syringe, one job

A syringe is a single-use item. Draw from a fresh syringe for each strain or culture, cap it if you have to pause, and do not put a used needle back into a sterile bottle.Spare needles can be added at the basket.

What happens next

The bag goes somewhere warm and dark and stays sealed until it is fully colonised. That part is covered by the incubation rules. Follow both sets of rules, buy the syringe and the bag together from us, and if the bag still contaminates before it is opened for the first time, the sterile guarantee replaces it.

Psilocybe cubensis spores sold on this site are supplied for microscopy and taxonomy only; germinating them is illegal in the UK and they are not for use with any growing product. These rules are written for gourmet liquid cultures.

Incubation rules

Once the bag is injected, the work is done and the waiting starts. Our spawn bags and all-in-one grow bags are made to stay sealed from injection to first harvest, so the incubation rules are mostly about resisting the urge to help. These are the rules our sterile guarantee asks you to follow after the injection rules.

Rule 1: keep it sealed

Do not open the bag, cut the bag, or add anything through the port after the injection. The filter patch lets the bag breathe; nothing else needs to. A bag opened "to have a look" is no longer a sealed bag, and it is no longer covered by the guarantee.

Rule 2: warm, dark, still

Put the bag out of direct light, where it will not be moved or knocked, at the temperature for its type: 22 to 23 °C for a grain-based bag (the 50/50 all-in-one bag, the LightBag, the SprinkleBags and every rye grain spawn bag), and 26 to 27 °C for the brown rice flour Inject-and-Forget bags. Grain-based systems are kept cooler so the grain layer at the base does not dry out. An airing cupboard, the top of a wardrobe or a heated incubator all work; the LightBag is made to colonise in dim light, the others prefer dark. Do not put a bag on a radiator, on a heat mat with no thermostat, or in a window: mycelium that goes past 28 °C stalls, and hot bags sweat, which is what contaminants like.

Rule 3: mix on the schedule, not before

An Inject-and-Forget bag is mixed well, through the plastic, on the day it is injected. That same-day mix is the reason Inject-and-Forget bags work so fast. A grain-based bag is the opposite: leave the grain where it landed, and only break it up and shake it after day 10, once the spores have germinated. After any mix, leave at least five days before the next one so the mycelium comes back healthy. Shaking a grain bag before day 10, or mixing more often than every five days, breaks the early growth and spreads whatever else is in there. When you do mix, mix well: knead the bag through the plastic, not a little shake.

Rule 4: wait for full colonisation

White mycelium spreads from the germination points and joins up. In a grain-based bag you see it first on the bottom of the bag, where the solution ran. An Inject-and-Forget bag that was mixed straight after injection shows hundreds of germination points all through the substrate. A bag is ready when the grain is white all the way through with no yellow, brown or grey patches. That takes two to four weeks for most gourmet species at the right temperature, longer if the room is cool. Slow is not the same as failed.

Rule 5: know what contamination looks like

Green, blue-green, black or pink patches, a wet grey slime, or a sour smell through the filter patch are contamination. White fluffy growth, small drops of yellow-brown liquid on the mycelium and a mushroom smell are not. If you are unsure, photograph the bag against a plain background in daylight and send it to us before you do anything else; the contamination guide has pictures.

Rule 6: when the bag is fully white, move on

A grain bag is fully colonised when every grain is covered in mycelium. For a spawn bag, that is the moment to mix it into bulk substrate for a monotub or bag-tek, with the substrate calculator giving the quantities; a grain bag is not fruited without a bulk substrate or a casing layer. A fruit-from-the-bag system is usually ready to fruit by day 20 on our mixing schedule: mix first on day 10, again on day 15 and again on day 20, then place it into fruiting conditions, still sealed until the product page says to open it. Opening the bag for the first time is where the guarantee ends and the growing begins.

If something goes wrong

Contamination before the first opening, on a bag and syringe bought together from us and handled by these rules, is covered by the sterile guarantee. Send the claim form with photographs of the whole bag, the injection port and the filter patch, and your order reference, and we will replace it.

Psilocybe cubensis spores sold on this site are supplied for microscopy and taxonomy only; germinating them is illegal in the UK and they are not for use with any growing product. These rules are written for gourmet liquid cultures.

© SporeSyringes.co.uk. Printed from sporesyringes.co.uk/lab-supplies/agar-pots-open-air-mea-ready-to-use.