

BiOWiSH® MultiBio 3PS: On-Farm Universal Aquaculture Feed Coating Using Xanthan Gum

EXTRUDED AND PELLETED FEEDS FOR AQUACULTURE

Please use the following instructions for on-farm spray coating of BiOWiSH® MultiBio 3PS onto compound extruded and pelleted feeds for aquaculture that dissolve in water in less than 2 hours. For aquaculture feeds that do not dissolve in less than 2 hours, please see our On-Farm Universal Aquaculture Feed Coating - User Guide.

Equipment

- a. Tarp
- b. Rake or hoe
- c. Blender
- d. Measuring scoop
- e. Hand held sprayer
- f. *Optional process equipment: large mixer (holds a minimum of 50kg of feed)*

Ingredients

- a. BiOWiSH® MultiBio 3PS
- b. Feed pellets (50 kg example in this user guide)
- c. Coating agent: water + xanthan gum or water + molasses

Process

1. Spread the tarp on the ground.
2. Using a rake or hoe, evenly spread the 50 kg of feed over the tarp.
3. Use a scoop to measure out approximately 0.2 grams of BiOWiSH® MultiBio 3PS per kg of feed. For 50 kg of feed you will need 10 grams of BiOWiSH® MultiBio 3PS.
4. Coating Mixture Preparation
 - a. **For water + xanthan gum coating:** Add 1.2 grams of xanthan gum and 600 milliliters of water to the blender and mix on high for at least 5 minutes to fully dissolve the gum. Add the 10 grams of BiOWiSH® MultiBio 3PS to this mixture and stir on low for another 2 minutes. Add this mixture to a hand-held sprayer and spray coat the feed as instructed.
 - b. **For water + molasses coating:** Add 600 milliliters of a 1:1 mix of water and molasses to the hand held sprayer. Add 10 grams of BiOWiSH® MultiBio 3PS to this mixture and mix for 15 minutes.
5. Coat the feed with a sweeping motion of the sprayer in an area with a barrier to the wind to prevent drafting of the spray mist. Make sure to exhaust the full contents of the sprayer onto the feedbed.
6. Optional Process: Place the feed into the mixer and begin to rotate the feed. With the feed rotating spray the feed with the coating mixture. Ensure at least 2 minutes retention time of the feed in the mixer with the spray process beginning as the feed enters the mixer. For each kg of feed use 0.2 grams of BiOWiSH® MultiBio 3PS and 0.024 grams of Xanthan gum + 12 milliliters of water or 12 milliliters of a 1:1 water + molasses mix.

Storage

After coating, store the coated feed and the reclosed package of BiOWiSH® MultiBio 3PS in a cool, dry location out of direct sunlight until ready to use. Storage above 40°C (104°F) for extended periods is not recommended.

Technical Support

Please contact a distributor near you for other approved coating agents and technical support or email aquaculture@biowishtech.com.

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