

PRODUCT INSERT

Nutri-Fly™

Molasses Formulation

Powdered *Drosophila* Media by Genesee Scientific

Description: Nutri-Fly Molasses Formulation is made to accommodate the requirements of large, communal *Drosophila* media preparation facilities as well as small, individual laboratories. Recipe can be doubled, tripled, etc. in the same batches to meet any media quantity requirements. Sealed in single-use foil pouches, Nutri-Fly EF is not only convenient but also robust, and guaranteed to make fresh and substantive food throughout its shelf-life of two years from delivery. Strict lot traceability procedures are employed to each ingredient, in every batch.

Directions: Empty entire contents of packet into a cooking vessel. Add ¼ - ½ specified RT H₂O and stir out any clumps. Add remaining RT H₂O and stir. Bring to a boil, then immediately reduce heat and cover. Simmer for 10 minutes, stirring occasionally. Add specified (Table 1.) propionic acid^{††} quantity (not supplied). Allow to cool to ~70°C and pour.

Ingredients: yellow corn meal, dry molasses, yeast, agar.

Table 1. Propionic Acid Quantity and Approximate Yield/Container

Cat#	H ₂ O	Propionic Acid ^{††}	Narrow Yield	Wide Yield	Bottle Yield
66-116	1L	4.8ml	~110 Vials	~88 Vials	~22
66-114	10L	48.0ml	~1110 Vials	~880 Vials	~220

^{††} Use suggested amount of propionic acid in Table 1 if using ≥99% (13.4M) propionic acid solution

Table 2. Suggested Volume/*Drosophila* Container

Volume	Container Type	Genesee Scientific Standard Vessel Catalog Numbers
~10ml	Narrow Vial	Polystyrene: #32-116 (bulk); 32-109 (tray pack)
~12ml	Wide Vial	Polystyrene: #32-117 (bulk); 32-110 (tray pack)
~50ml	Standard Bottle	Polypropylene: #32-130 / Glass: #50-102

Helpful Hints

- To remove clumps use a hand mixer, or press out larger lumps with fingers or the back of a large spoon.
- Problematic food is often simply dry food. Seemingly small changes in the cooking process can make a significant difference in the quality of the food if those changes result in increased water loss. Take special care in this regard, especially in dry climates.
- If new to Nutri-Fly, start small on your first batches. Before combining multiple packets, start with one to gain experience and a comfort level and gradually move to larger batches.
- Even when hot the food is thick. Be sure your pump can handle it before you make a large batch.

^{††} Tegosept (Genesee #: 20-258; 20-259; 20-266 / synonyms: methyl paraben; nipagen) may be used in addition to but not instead of propionic acid. Propionic acid is considered sufficient as a preservative and the use of tegosept is known to slow *Drosophila* growth rates in the larval and pupal stages and we therefore suggest it be used only when additional fungal protection is necessary, or to eliminate sporadic mold problems.