

High Fat Sample Handling XT10/XT10I and XT15/XT15I

How do you define high fat samples? High fat samples are any meat with a fat content >20% and plant samples with >40% fat fit in the category.

Why is special handling necessary? During the drying of these samples the fat may liquefy and some fat may migrate to the surface of the bag. If this fat is not retained prior to the extraction, the resulting fat value will be artificially low or if there is contact with other bags, cross contamination will occur.

What special handling steps should be taken? Once the sample is placed in a Filter Bag and the bag is sealed, the bag is placed in a weighed and tared weigh tin and then placed in an oven for drying.



After removing the Filter Bag from the oven, is each bag weighed with its tin or weighed separately? The Filter Bags and tins are weighed together. If the Filter Bag is removed from the weigh tin, prior to weighing, some residual fat may remain in the weigh tin and will not be accounted for.

Only a few weigh tins will fit in an ANKOM desiccant MoistureStop Pouch. Is there an option or shall I use my lab's cabinet desiccator? ANKOM has developed a Weigh Tin Desiccator (X49) Tray that will hold a number of samples in weigh tins.



Desiccant will be placed here

When the weigh tins and Filter Bags have been weighed, what is my next step? At this point, the Filter Bags may be removed from the weigh tins and placed in an ANKOM Fat Extractor. The weigh tins may be thrown away even if they contain residual fat.

After the extraction, should the tin weight be included when the Filter Bags are weighed? No, by utilizing the fat extraction spreadsheet on the Calculation Template CD that came with your instrument, you will only need to weigh the Filter Bag after the extraction.

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The Weigh Tin desiccator is designed to minimize ambient air contamination of the dried samples. The pouch will hold up to 12 samples with tins. Each pouch has two trays that slide in and out of the pouch.



1. Remove the samples in weigh tins from the oven and place them immediately into the trays in the desiccant pouch. Press the magnets together.

2. Allow 10-15 minutes to cool to room temperature. Open the magnetic strip and slide one tray out of the pouch far enough to remove one tin. Weigh the tin and bag. Leave the bag open.



3. Slide the tray out to get the next sample and continue weighing in this manner. Ambient air will not affect the other samples because the air is not being pushed into the pouch as it is when opening and closing a desiccator.

