

Service Procedure **030**

Revised: 7/07/2022 e

DELTA/DELTAI, A2000/A2000I, A200/A200I

Electronic Balance-

We recommend a four place readout on the balance and suggests "Balance Talk[™]" or other LIMS software for data input and management.

Items needed:

Electronic Balance	Heat Sealer #HS – (120V) #HSi – (220V)	
Filter Bags #F57	Bag Weigh Holder #101.2	Chosen Sample
	101.2 ^{3ag} Weigh Holder	Adda fiber Check Sont NDI - 36.5% 63 ADF - 31.0%4 83 Stade Fiber - 26.5% 45
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Weighing Technique for NDF, ADF and Crude Fiber Determinations Service Procedure 03 Revised: 7/07/2022 e			
Moisture	eStop [™] Weigh Pouch #X45	Solvent Resis #F	
1. Number all bags u marker.	ising a solvent resistant	# Study Maniher # Study Man 1 2	ber Hi Studiy Jiloniser 3
2. Weigh and record *Avoid status elec	filter bag weights (W1).		
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Weighing Technique for NDF, ADF and Crude Fiber Determinations DELTA/DELTAI, A2000/A2000I, A200/A200I

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3. Tare weight of Filter Bag and Bag Weigh Holder.

 Add 0.5g (for NDF & ADF) or 1.0g (for CF) of sample to bag using a spatula. Be careful not to get sample particles on top edge of the bag sealing area.

Weigh sample and record weight (W2)

Heat sealer dial should be set between 4 and 5.
 The setting may vary from sealer to sealer.



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6. Seal each Filter Bag within 4mm of its open end. Hold down handle for 2-3 seconds after the red light turns off to cool seal.



 IMPORTANT- The seal can be seen as a solid melted stripe along the top edge. If the seal is not strong, re-seal.



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8. Stack each tray on the Bag Suspender rod. Insert weighed Filter Bag into each Bag Suspender trays as shown. Insert into the instrument perform the extraction.



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9.	After fiber extraction is complete, acetone-rinse
	and dry according to procedure. Remove from
	oven and immediately store in the
	MoistureStop™ Weigh Pouch.



10. Cool to room temperature and re-weigh each bag (W3).					
AS-Is Basis-	(W ₃ – (W ₁ X C ₁)) X 100				
	W ₂				
*DM Basis-	(W ₃ - (W ₁ X C ₁)) X 100				
	W ₂ X DM				
**OM Basis-	(W ₄ - (W ₁ X C ₂)) X 100				
	W ₂ X OM				
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Where:

 W_1 = Bag tare weight

W₂ = Sample weight

 W_3 = Weight after extraction

W₄ = Weight of organic matter (OM) (loss of weight on ignition of bag and fiber residue)

C₁ = Blank bag correction (final oven-dried weight/original bag weight)

C₂ = Ash corrected blank bag (loss of weight on ignition of blank bag/original blank bag weight)

*DM = Fiber calculated on dry matter basis; only used per customer preference

**OM = Fiber calculated on organic matter basis; only used per customer preference

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