

## ATTACHMENT 1 - ANALYSES AND BIDS

NOTE: The following is ASMI/ADEC's current best assessment of the nutrition testing required for *most* species. It is expected that following an accepted bid that the Contractor will offer expertise to minimize redundancy, unnecessary/inapplicable tests, and potentially offer additional tests which will help best satisfy the project objectives. For example, for seafood samples it may be reasonable to omit tests such as fiber and sugar, and a non-bid with explanation may be accepted, or bidding on only one of the omega test groups if it is deemed redundant. It is also expected that total assays and assay type will have variance between species.

<b>Group</b>	<b>Test</b>	<b>Reference Method</b>	<b>Proposed Alternative</b>	<b>Turnaround Time</b>	<b>Cost/Bid</b>
<b>Amino Acid Profile</b>					
	AMINO ACIDS BY AH (AOAC, MOST MATRICES) (LC-UV/VIS),	AOAC 982.30 Mod			
	CYSTINE & METHIONINE (AOAC, MOST MATRICES) (LC-FLD)	AOAC 994.12 Mod			
	TRYPTOPHAN (AOAC, MOST MATRICES)	AOAC 988.15			
	<b>TOTAL PER SAMPLE</b>				
<b>Fatty Acid Profile</b>					
	FULL OMEGA 9,6,&3 (include 5, 7, 11 &DPA if feasible) & TRANS %W/W (GC-FID)	AOAC 996.06			
<b>Vitamins/Minerals</b>					
	COPPER BY ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 Mod			
	MAGNESIUM BY ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 Mod			
	MANGANESE BY ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 Mod			

PHOSPHORUS- LOW LEVEL (<7%) (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 Mod			
ZINC BY ICP (ICP- OES)	AOAC 984.27, 927.02, 985.01, 965.17 Mod			
IODINE (ICP-MS)	AOAC 2012.15			
TOTAL VITAMIN A (LC-FLD-DAD)	AOAC 974.29 Mod			
VITAMIN E - TOCOPHEROL PROFILE (LC-FLD)	AOAC 971.30 WITH HPLC QUANTIFICATION Mod			
VITAMIN B1 - THIAMINE (AOAC) (SPECTROSCOPY (FLUORESCENCE))	AOAC 942.23 Mod			
VITAMIN B2 - RIBOFLAVIN (AOAC, LEVELS < 25 MG/100G) (SPECTROSCOPY (FLUORESCENCE))	AOAC 970.65 Mod			
NIACIN (AOAC FOOD/FEED) (NEPHELOMETRY)	AOAC 944.13			
VITAMIN B5 - PANTOTHENIC ACID (AOAC MOD., FOOD, <75 MG/100G) (NEPHELOMETRY)	AOAC 945.74 (MOD.)			
VITAMIN B6 - PYRIDOXINE (JAOAC) (LC-FLD)	AOAC 88, 30-37			
TOTAL FOLATE (AOAC, LEVELS < 12.5 MG/100G) (NEPHELOMETRY)	AOAC 992.05 Mod			
VITAMIN K PROFILE (LC-FLD)	AOAC 999.15, Mod.; AOAC 999.15			
VITAMIN B12 - (AOAC, LEVELS < 5 MG/100G) (NEPHELOMETRY)	AOAC 952.20 Mod			

	SELENIUM (ICP-MS) (ICP-MS)	AOAC 2013.06			
	<b>TOTAL PER SAMPLE</b>				
<b>FDA Compliant Nutrition Package w/Omegas Reported</b>					
	<b>Modern FDA Compliant NLEA Mandatory Package with Omega FAP including:</b>				
	Ash (Combustion)	AOAC 942.05			
	Calcium by ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 mod			
	Calories From Total Fat, Calc (Calculation)	CFR 21-calc.			
	Carbohydrates, Calculated (Calculation)	CFR 21-calc			
	Cholesterol in Food	AOAC 994.10 mod			
	Fatty Acids-Full Omega 9,6&3 (include 5, 7, 11 &DPA if feasible) & Trans %W/W (GC-FID)	AOAC 996.06			
	Iron by ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 mod			
	Moisture by Vacuum Oven (Gravimetry)	AOAC 925.09			
	Potassium by ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 mod			
	Protein - Combustion (Combustion)	AOAC 990.03; AOAC 992.15			
	Sodium by ICP (ICP-OES)	AOAC 984.27, 927.02, 985.01, 965.17 mod			
	Sugar Profile (AOAC, Most Matrices)(LC-ELSD)	AOAC 982.14, mod			
	Calories, Calculated (Calculation)	CFR - Atwater calculation			

	Total Dietary Fiber (Gravimetry)	AOAC 991.43			
	Vitamin D (LC-MS/MS) (LC-MS/MS)	Huang et al., Rapid Commun. Mass Spectrum 2014, 28			
	<b>TOTAL PER SAMPLE</b>				
	<b>ADDTL NUTRITION ANALYSIS</b>				
	Nutrition Facts Panel (Esha Genesis R&D Database)	Genesis			
	Serving Size By Volume (Calculation)	Calculation			
	Serving Size (Unit Weight) (Calculation)	Calculation			
	Protein Efficiency Ratio	Calculation			
	Serving Size (Calculation)				
	Serving size by volume (gravimetry)	Calculation			
<b>TOTAL PER SAMPLE</b>					
<b>Other</b>					
	AOAC Total Starch (Spectrophotometry (UV/VIS)				
	Oil/Liquid/Paste Based Matrix - Method/Sample Preparation				
	Food/ Feed/ Tissue - Method/Sample Preparation				
	<b>TOTAL PER SAMPLE</b>				

<b>TOTAL COST PER SAMPLE</b>
<b>TOTAL COST (COST PER SAMPLE x50)</b>

NOTE: . If the Procurement Officer calculates the Bid Price of Bid Items as a different sum than what is entered in the Bid Price box, the Procurement Officer will use their calculated bid price instead to evaluate the bids. Bidders must bid on all items, provide reasoning for omission, or suggest alternative methodology to be considered responsive. If an Alternative Proposed Method is unacceptable to ASMI/ADEC, the right to reject the bid is reserved. ASMI/ADEC encourages Vendors to inquire if an Alternative Proposed Method is acceptable prior to bid or by submitting an Inquiry in writing. If an Alternative Proposed Method is indicated, the Price Per Sample Matrix shall reflect the price of the Alternative Proposed Method.

Bid Price in Words:

Bidder must indicate if they can meet the required Sample Analysis Turnaround Time of 45 days:

Yes

No

If the bidder cannot meet the Sample Analysis Turnaround Time of 45 days, the bidder can propose an alternate Sample Analysis Turnaround Time which will be considered at ASMI/ADEC's discretion.

Alternate Sample Analysis Turnaround Time:

Bidder Company:	Alaska Business License Number:
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Signature of Authorized Official:	Printed Name and Title:
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Signature Date:	Email:	Phone:
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Address:	City, State, and Zip:
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