BROOKS APPLIED LABS
18804 North Creek Parkway, Ste 100, Bothell, WA 98011 • USA • T: 206 632 6206 F: 206 632 6017 • info@brooksapplied.com

September 1, 2017

Healthy Babies Bright Futures
ATTN: Jane Houlihan
1201 Connecticut Ave NW Suite 300
Washington, D.C. - 20036
jhoulihan@hbbf.org

RE: Project HBB-DC1601

Dear Jane Houlihan,

Between August 9 and August 14, 2017, Brooks Applied Labs (BAL) received twenty-seven (27) cereal samples. The samples were logged-in for the analyses of arsenic speciation defined as inorganic arsenic (InorgAs) as the sum of As(III) and As(V), monomethylarsonic acid (MMAs) and dimethylarsinic acid (DMAs) according to the quotation. All samples were received and stored according to BAL SOPs and EPA methodology.

The results were not method blank corrected as described in the calculations section of the relevant BAL SOP(s) and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

As Speciation analysis – batches B172101
All cereals were digested via an in-house method and analyzed with ion chromatography – inductively coupled plasma – mass spectrometry (IC-ICP-MS).

It should be noted that the digestion method typically induces conversion of As(V) to As(III) in the samples and matrix spikes and induces conversion of As(III) to As(V) in the blank spikes. Only the InorgAs result [the sum of As(III) and As(V)] was reported.

The blank spike (BS) BS2 recovered low for DMAs in batch B172101. The standard reference material (SRM) met acceptance criteria as did all of the matrix spikes. No qualifications were necessary since all other quality control met acceptance criteria.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The DMAs native result for sample *VA 2017-81, Beech Nut Complete Oatmeal* (1732029-01) and its associated analytical duplicate (DUP4) result yielded a RPD above the acceptance limit (27%). The sample result and the associated DUP met the secondary criteria of being less than 5x the MRL and within 2x the MRL of each other. No qualifications were necessary.

The As(V) results for samples *VA 2017-81, Beech Nut Complete Oatmeal* (1732029-01) and *VA 2017-95, Gerber Barley Cereal* (1732029-03) and the As(III) result for *VA 2017-95, Gerber Barley Cereal* (1732029-03) had results between the MDL and MRL. Since the sum of As(V) and As(III) are reported

as InorgAs and have concentrations above the MRL, the InorgAs results were qualified **J-1** to indicate that one or both of the results that was used in the calculation had a result that was less than the MRL.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL, an accredited laboratory, certifies that the reported results of all analyses for which BAL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Client Services Manager
lydia@brooksapplied.com

Report Information

Laboratory Accreditation

BAL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BAL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	standard reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

(Effective 9/23/09)

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1 Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Applied Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BAL.

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
VA 2017-81	1732029-01	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-84	1732029-02	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-95	1732029-03	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-86	1732029-04	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-87	1732029-05	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-100	1732029-06	Baby Food	Sample	08/08/2017	08/09/2017
VA 2017-89	1732029-07	Baby Food	Sample	08/08/2017	08/09/2017

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Bio Kinetics - Buckwheat baby cereal	1732051-01	Baby Cereal	Sample	unknown	08/10/2017
Bio Kinetics - Brown rice baby cereal	1732051-02	Baby Cereal	Sample	unknown	08/10/2017

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Organic Rice Cereal - DCAM-2017-82	1733006-01	Biota	Sample	unknown	08/14/2017
Rice Cereal - DC-2017-83	1733006-02	Biota	Sample	unknown	08/14/2017
Complete Rice Single Grain Baby Cereal - DC-2017-85	1733006-03	Biota	Sample	unknown	08/14/2017
Whole Grain Rice Cereal DC-2017-88	1733006-04	Biota	Sample	unknown	08/14/2017
Whole Grain Rice Cereal DC-2017-90	1733006-05	Biota	Sample	unknown	08/14/2017
Brown Rice Sprouted Baby Cereal DCAM-2017-91	1733006-06	Biota	Sample	unknown	08/14/2017
Buckwheat Sprouted Baby Cereal DCAM-2017-93	1733006-07	Biota	Sample	unknown	08/14/2017
Barley Cereal DCBRU-2017-96	1733006-08	Biota	Sample	unknown	08/14/2017
Barley Cereal for Baby DCAM-2017-97	1733006-09	Biota	Sample	unknown	08/14/2017
Multigrain Cereal (Pouch) - DCAM-2017-98	1733006-10	Biota	Sample	unknown	08/14/2017
Complete Multigrain Baby Cereal DC-2017-99	1733006-11	Biota	Sample	unknown	08/14/2017
Oatmeal Whole Grain Baby Cereal (Pouch) DCWM-2017-101	1733006-12	Biota	Sample	unknown	08/14/2017
Sensitive Oatmeal Whole Grain Baby Cereal DCAM-2017-102	1733006-13	Biota	Sample	unknown	08/14/2017
Oatmeal & Peach Apple Cereal DC-2017-103	1733006-14	Biota	Sample	unknown	08/14/2017
DHA Probiotic Oatmeal Cereal DC-2017-104	1733006-15	Biota	Sample	unknown	08/14/2017
Mixed Grain With Bluberries Cereal for Baby DCAM-2017-105	1733006-16	Biota	Sample	unknown	08/14/2017
Oats Sprouted Baby Cereal DCAM-2017-106	1733006-17	Biota	Sample	unknown	08/14/2017
Nestle Nestum Cereal Wheat and Honey DCAM-2017-107	1733006-18	Biota	Sample	unknown	08/14/2017

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
DMAs	Biota	SOP BAL-4101	08/23/2017	08/24/2017	B172101	1701011
InorgAs	Biota	SOP BAL-4101	08/23/2017	08/24/2017	B172101	1701011
MMAs	Biota	SOP BAL-4101	08/23/2017	08/24/2017	B172101	1701011

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Barley Cereal DCBRU-2017-96, Gerber										
1733006-08	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-08	InorgAs	Biota	AR	0.006	J	0.003	0.010	mg/kg	B172101	1701011
1733006-08	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Barley Cereal for Baby DCAM-2017-97, Healthy Times										
1733006-09	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-09	InorgAs	Biota	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1733006-09	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Bio Kinetics - Brown rice baby cereal,										
1732051-02	DMAs	Baby Cereal	AR	0.029		0.002	0.011	mg/kg	B172101	1701011
1732051-02	InorgAs	Baby Cereal	AR	0.128		0.003	0.010	mg/kg	B172101	1701011
1732051-02	MMAs	Baby Cereal	AR	≤ 0.005	U	0.005	0.011	mg/kg	B172101	1701011
Bio Kinetics - Buckwheat baby cereal,										
1732051-01	DMAs	Baby Cereal	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1732051-01	InorgAs	Baby Cereal	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1732051-01	MMAs	Baby Cereal	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Brown Rice Sprouted Baby Cereal DCAM-2017-91, Biokenetics										
1733006-06	DMAs	Biota	AR	0.030		0.002	0.011	mg/kg	B172101	1701011
1733006-06	InorgAs	Biota	AR	0.138		0.003	0.010	mg/kg	B172101	1701011
1733006-06	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Buckwheat Sprouted Baby Cereal DCAM-2017-93, Biokenetics										
1733006-07	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-07	InorgAs	Biota	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1733006-07	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Complete Multigrain Baby Cereal DC-2017-99, Beech- Nut										
1733006-11	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-11	InorgAs	Biota	AR	0.016		0.003	0.010	mg/kg	B172101	1701011
1733006-11	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Complete Rice Single Grain Baby Cereal - DC-2017-85, Beech- Nut										
1733006-03	DMAs	Biota	AR	0.033		0.002	0.011	mg/kg	B172101	1701011
1733006-03	InorgAs	Biota	AR	0.078		0.003	0.010	mg/kg	B172101	1701011
1733006-03	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
DHA Probiotic Oatmeal Cereal DC-2017-104, Gerber										
1733006-15	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-15	InorgAs	Biota	AR	0.006	J	0.003	0.010	mg/kg	B172101	1701011
1733006-15	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Mixed Grain With Bluberries Cereal for Baby DCAM-2017-105, Healthy Times										
1733006-16	DMAs	Biota	AR	0.014		0.002	0.011	mg/kg	B172101	1701011
1733006-16	InorgAs	Biota	AR	0.035		0.003	0.010	mg/kg	B172101	1701011
1733006-16	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Multigrain Cereal (Pouch) - DCAM-2017-98, Beech- Nut										
1733006-10	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-10	InorgAs	Biota	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1733006-10	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Nestle Nestum Cereal Wheat and Honey DCAM-2017-107, Nestle										
1733006-18	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-18	InorgAs	Biota	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1733006-18	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Oatmeal & Peach Apple Cereal DC-2017-103, Gerber										
1733006-14	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-14	InorgAs	Biota	AR	0.010	J	0.003	0.010	mg/kg	B172101	1701011
1733006-14	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Oatmeal Whole Grain Baby Cereal (Pouch) DCWM-2017-101, Beech- Nut										
1733006-12	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-12	InorgAs	Biota	AR	≤ 0.003	U	0.003	0.010	mg/kg	B172101	1701011
1733006-12	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Oats Sprouted Baby Cereal DCAM-2017-106, Biokinetics										
1733006-17	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-17	InorgAs	Biota	AR	0.004	J	0.003	0.010	mg/kg	B172101	1701011
1733006-17	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Organic Rice Cereal - DCAM-2017-82, Gerber										
1733006-01	DMAs	Biota	AR	0.074		0.002	0.011	mg/kg	B172101	1701011
1733006-01	InorgAs	Biota	AR	0.040		0.003	0.010	mg/kg	B172101	1701011
1733006-01	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Rice Cereal - DC-2017-83, Gerber										
1733006-02	DMAs	Biota	AR	0.031		0.002	0.011	mg/kg	B172101	1701011
1733006-02	InorgAs	Biota	AR	0.063		0.003	0.010	mg/kg	B172101	1701011
1733006-02	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Sensitive Oatmeal Whole Grain Baby Cereal DCAM-2017-102, Beech- Nut										
1733006-13	DMAs	Biota	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1733006-13	InorgAs	Biota	AR	0.014		0.003	0.010	mg/kg	B172101	1701011
1733006-13	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-100, Beech Nut Complete Oatmeal										
1732029-06	DMAs	Baby Food	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1732029-06	InorgAs	Baby Food	AR	0.016		0.003	0.010	mg/kg	B172101	1701011
1732029-06	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-81, Gerber Organic Rice										
1732029-01	DMAs	Baby Food	AR	0.009	J	0.002	0.011	mg/kg	B172101	1701011
1732029-01	InorgAs	Baby Food	AR	0.028	J-1	0.003	0.010	mg/kg	B172101	1701011
1732029-01	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-84, Gerber Rice Cereal Single Grain										
1732029-02	DMAs	Baby Food	AR	0.029		0.002	0.011	mg/kg	B172101	1701011
1732029-02	InorgAs	Baby Food	AR	0.069		0.003	0.010	mg/kg	B172101	1701011
1732029-02	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
VA 2017-86, Beech Nut Complete Rice Single										
1732029-04	DMAs	Baby Food	AR	0.031		0.002	0.011	mg/kg	B172101	1701011
1732029-04	InorgAs	Baby Food	AR	0.065		0.003	0.010	mg/kg	B172101	1701011
1732029-04	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-87, Beech Nut Complete Rice Single										
1732029-05	DMAs	Baby Food	AR	0.021		0.002	0.011	mg/kg	B172101	1701011
1732029-05	InorgAs	Baby Food	AR	0.069		0.003	0.010	mg/kg	B172101	1701011
1732029-05	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-89, Earth's Best Whole Grain Rice										
1732029-07	DMAs	Baby Food	AR	0.007	J	0.002	0.011	mg/kg	B172101	1701011
1732029-07	InorgAs	Baby Food	AR	0.076		0.003	0.010	mg/kg	B172101	1701011
1732029-07	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
VA 2017-95, Gerber Barley Cereal										
1732029-03	DMAs	Baby Food	AR	≤ 0.002	U	0.002	0.011	mg/kg	B172101	1701011
1732029-03	InorgAs	Baby Food	AR	0.012	J-1	0.003	0.010	mg/kg	B172101	1701011
1732029-03	MMAs	Baby Food	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Whole Grain Rice Cereal DC-2017-88, Earths Best										
1733006-04	DMAs	Biota	AR	0.005	J	0.002	0.011	mg/kg	B172101	1701011
1733006-04	InorgAs	Biota	AR	0.065		0.003	0.010	mg/kg	B172101	1701011
1733006-04	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011
Whole Grain Rice Cereal DC-2017-90, Earths Best										
1733006-05	DMAs	Biota	AR	0.005	J	0.002	0.011	mg/kg	B172101	1701011
1733006-05	InorgAs	Biota	AR	0.060		0.003	0.010	mg/kg	B172101	1701011
1733006-05	MMAs	Biota	AR	≤ 0.005	U	0.005	0.012	mg/kg	B172101	1701011

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Accuracy & Precision Summary

Batch: B172101
Lab Matrix: Biota
Method: SOP BAL-4101

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172101-BS1	**Blank Spike, As(V) (1734005)**						
	InorgAs		0.3333	0.271	mg/kg	81% 75-125	
B172101-BS2	**Blank Spike, As(III), MMAs, DMAs (1734006)**						
	DMAs		0.2132	0.149	mg/kg	*70%* 75-125	
	InorgAs		0.3333	0.262	mg/kg	79% 75-125	
	MMAs		0.1000	0.094	mg/kg	94% 75-125	
B172101-SRM1	**Standard Reference Material (1729005, NIST 1568b)**						
	DMAs		0.1800	0.139	mg/kg	77% 75-125	
	InorgAs		0.09200	0.081	mg/kg	88% 75-125	
	MMAs		0.01160	0.013	mg/kg	109% 75-125	
B172101-DUP1	**Duplicate, (1732029-01)**						
	DMAs	0.009		0.010	mg/kg		15% 25
	InorgAs	0.028		0.028	mg/kg		2% 25
	MMAs	ND		ND	mg/kg		N/C 25
B172101-DUP4	**Duplicate, Analytical (1732029-01)**						
	DMAs	0.009		0.007	mg/kg		*27%* 25
	InorgAs	0.028		0.031	mg/kg		9% 25
	MMAs	ND		ND	mg/kg		N/C 25
B172101-MS1	**Matrix Spike, As(V) (1732029-01)**						
	InorgAs	0.028	0.3216	0.320	mg/kg	91% 75-125	
B172101-MS2	**Matrix Spike, As(III), MMAs, DMAs (1732029-01)**						
	DMAs	0.009	0.2187	0.190	mg/kg	83% 75-125	
	InorgAs	0.028	0.3420	0.316	mg/kg	84% 75-125	
	MMAs	ND	0.1026	0.107	mg/kg	104% 75-125	
B172101-MSD1	**Matrix Spike Duplicate, As(V) (1732029-01)**						
	InorgAs	0.028	0.3412	0.347	mg/kg	93% 75-125	3% 25

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Accuracy & Precision Summary

Batch: B172101
Lab Matrix: Biota
Method: SOP BAL-4101

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172101-MSD2	**Matrix Spike Duplicate, As(III), MMAs, DMAs (1732029-01)**						
	DMAs	0.009	0.2073	0.186	mg/kg	85% 75-125	3% 25
	InorgAs	0.028	0.3240	0.315	mg/kg	88% 75-125	5% 25
	MMAs	ND	0.09721	0.099	mg/kg	102% 75-125	2% 25
B172101-PS1	**Post Spike, (1732029-01)**						
	DMAs	0.009	0.5011	0.491	mg/kg	96% 75-125	
	InorgAs	0.028	1.022	1.092	mg/kg	104% 75-125	
	MMAs	ND	0.5148	0.602	mg/kg	117% 75-125	
B172101-DUP2	**Duplicate, (1732051-02)**						
	DMAs	0.029		0.032	mg/kg		10% 25
	InorgAs	0.128		0.128	mg/kg		0.08% 25
	MMAs	ND		ND	mg/kg		N/C 25
B172101-MS3	**Matrix Spike, As(V) (1732051-02)**						
	InorgAs	0.128	0.3291	0.437	mg/kg	94% 75-125	
B172101-MS4	**Matrix Spike, As(III), MMAs, DMAs (1732051-02)**						
	DMAs	0.029	0.2156	0.217	mg/kg	87% 75-125	
	InorgAs	0.128	0.3370	0.447	mg/kg	94% 75-125	
	MMAs	ND	0.1011	0.119	mg/kg	117% 75-125	
B172101-MSD3	**Matrix Spike Duplicate, As(V) (1732051-02)**						
	InorgAs	0.128	0.3421	0.447	mg/kg	93% 75-125	0.6% 25
B172101-MSD4	**Matrix Spike Duplicate, As(III), MMAs, DMAs (1732051-02)**						
	DMAs	0.029	0.2082	0.209	mg/kg	86% 75-125	0.5% 25
	InorgAs	0.128	0.3255	0.419	mg/kg	89% 75-125	6% 25
	MMAs	ND	0.09766	0.113	mg/kg	116% 75-125	1% 25
B172101-DUP3	**Duplicate, (1733006-18)**						
	DMAs	ND		ND	mg/kg		N/C 25
	InorgAs	ND		ND	mg/kg		N/C 25
	MMAs	ND		ND	mg/kg		N/C 25

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Accuracy & Precision Summary

Batch: B172101
Lab Matrix: Biota
Method: SOP BAL-4101

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B172101-DUP5	**Duplicate, Analytical (1733006-18)**						
	DMAs	ND		ND	mg/kg		N/C 25
	InorgAs	ND		ND	mg/kg		N/C 25
	MMAs	ND		ND	mg/kg		N/C 25
B172101-MS5	**Matrix Spike, As(V) (1733006-18)**						
	InorgAs	ND	0.3235	0.279	mg/kg	86% 75-125	
B172101-MS6	**Matrix Spike, As(III), MMAs, DMAs (1733006-18)**						
	DMAs	ND	0.2079	0.173	mg/kg	83% 75-125	
	InorgAs	ND	0.3251	0.304	mg/kg	93% 75-125	
	MMAs	ND	0.09753	0.111	mg/kg	114% 75-125	
B172101-MSD5	**Matrix Spike Duplicate, As(V) (1733006-18)**						
	InorgAs	ND	0.3220	0.269	mg/kg	84% 75-125	3% 25
B172101-MSD6	**Matrix Spike Duplicate, As(III), MMAs, DMAs (1733006-18)**						
	DMAs	ND	0.2111	0.186	mg/kg	88% 75-125	6% 25
	InorgAs	ND	0.3300	0.306	mg/kg	93% 75-125	0.7% 25
	MMAs	ND	0.09901	0.113	mg/kg	114% 75-125	0.04% 25
B172101-PS2	**Post Spike, (1733006-18)**						
	DMAs	ND	0.4947	0.412	mg/kg	83% 75-125	
	InorgAs	ND	1.009	0.942	mg/kg	93% 75-125	
	MMAs	ND	0.5082	0.506	mg/kg	100% 75-125	

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Method Blanks & Reporting Limits

Batch: B172101
Matrix: Biota
Method: SOP BAL-4101
Analyte: DMAs

Sample	Result	Units
B172101-BLK1	0.00	mg/kg
B172101-BLK2	0.00	mg/kg
B172101-BLK3	0.00	mg/kg
B172101-BLK4	0.00	mg/kg

Average: 0.000
Limit: 0.011

MDL: 0.002
MRL: 0.011

Analyte: InorgAs

Sample	Result	Units
B172101-BLK1	0.00	mg/kg
B172101-BLK2	0.00	mg/kg
B172101-BLK3	0.00	mg/kg
B172101-BLK4	0.00	mg/kg

Average: 0.000
Limit: 0.010

MDL: 0.003
MRL: 0.010

Analyte: MMAs

Sample	Result	Units
B172101-BLK1	0.00	mg/kg
B172101-BLK2	0.00	mg/kg
B172101-BLK3	0.00	mg/kg
B172101-BLK4	0.00	mg/kg

Average: 0.000
Limit: 0.012

MDL: 0.005
MRL: 0.012

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Containers

Lab ID: 1732029-01
Sample: VA 2017-81
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Lab ID: 1732029-02
Sample: VA 2017-84
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Lab ID: 1732029-03
Sample: VA 2017-95
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Lab ID: 1732029-04
Sample: VA 2017-86
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Lab ID: 1732029-05
Sample: VA 2017-87
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Lab ID: 1732029-06
Sample: VA 2017-100
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Containers

Lab ID: 1732029-07
Sample: VA 2017-89
Report Matrix: Baby Food
Sample Type: Sample
Collected: 08/08/2017
Received: 08/09/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided - SP	n/a	n/a	none			Cardboard Box

Sample Containers

Lab ID: 1732051-01
Sample: Bio Kinetics - Buckwheat baby cereal
Report Matrix: Baby Cereal
Sample Type: Sample
Collected: unknown
Received: 08/10/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	n/a	n/a	none	n/a	n/a	Envelope

Lab ID: 1732051-02
Sample: Bio Kinetics - Brown rice baby cereal
Report Matrix: Baby Cereal
Sample Type: Sample
Collected: unknown
Received: 08/10/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	n/a	n/a	none	n/a	n/a	Envelope

Sample Containers

Lab ID: 1733006-01
Sample: Organic Rice Cereal - DCAM-2017-82
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Containers

Lab ID: 1733006-02
Sample: Rice Cereal - DC-2017-83
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-03
Sample: Complete Rice Single Grain Baby Cereal - DC-2017-85
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-04
Sample: Whole Grain Rice Cereal DC-2017-88
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-05
Sample: Whole Grain Rice Cereal DC-2017-90
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-06
Sample: Brown Rice Sprouted Baby Cereal DCAM-2017-91
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-07
Sample: Buckwheat Sprouted Baby Cereal DCAM-2017-93
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Containers

Lab ID: 1733006-08
Sample: Barley Cereal DCBRU-2017-96
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-09
Sample: Barley Cereal for Baby DCAM-2017-97
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-10
Sample: Multigrain Cereal (Pouch) - DCAM-2017-98
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-11
Sample: Complete Multigrain Baby Cereal DC-2017-99
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-12
Sample: Oatmeal Whole Grain Baby Cereal (Pouch) DCWM-2017-101
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-13
Sample: Sensitive Oatmeal Whole Grain Baby Cereal DCAM-2017-102
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Sample Containers

Lab ID: 1733006-14
Sample: Oatmeal & Peach Apple Cereal DC-2017-103
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-15
Sample: DHA Probiotic Oatmeal Cereal DC-2017-104
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-16
Sample: Mixed Grain With Bluberries Cereal for Baby DCAM-2017-105
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-17
Sample: Oats Sprouted Baby Cereal DCAM-2017-106
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

Lab ID: 1733006-18
Sample: Nestle Nestum Cereal Wheat and Honey DCAM-2017-107
Report Matrix: Biota
Sample Type: Sample
Collected: unknown
Received: 08/14/2017

Des	Container	Size	Lot	Preservation	Pres-Lot	pH	Ship. Cont.
A	Client-Provided	bag	Client Provided	none	na		Cardboard box

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Project ID: HBB-DC1601
PM: Lydia Greaves

Client PM: Jane Houlihan

Shipping Containers

Cardboard Box

Received: August 9, 2017 10:20
Tracking No: 1Z24X6000733031736 via UPS
Coolant Type: None
Temperature: ambient

Description: Cardboard Box
Damaged in transit? No
Returned to client? No
Comments: Ambient

Custody seals present? No
Custody seals intact? No
COC present? Yes

Envelope

Received: August 10, 2017 14:00
Tracking No: 1Z628V641349680501 via UPS
Coolant Type: None
Temperature: ambient

Description: Envelope
Damaged in transit? No
Returned to client? No
Comments: ambient

Custody seals present? No
Custody seals intact? No
COC present? Yes

Cardboard box

Received: August 14, 2017 9:00
Tracking No: 808618090282 via FedEx
Coolant Type: None
Temperature: ambient

Description: Box
Damaged in transit? No
Returned to client? No
Comments: Ambient

Custody seals present? No
Custody seals intact? No
COC present? Yes

18804 North Creek Parkway, Suite 100, Bothell, WA 98011 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com