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May 7, 2025

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

RE: Project HBB-DC2401

Dear Jane Houlihan,

On March 28, 2025, Brooks Applied Labs (BAL) received sixteen (16) food samples. The samples were logged in for the analyses of total recoverable arsenic (As), cadmium (Cd), mercury (Hg), lead (Pb), and arsenic speciation (inorganic arsenic, DMA, MMA). All samples were received and stored according to BAL SOPs and EPA methodology.

The samples were homogenized using pre-cleaned commercial grade homogenization equipment.

Total Metals Quantitation by ICP-QQQ-MS

All samples were digested according to method AOAC 2015.01, modified with a mixture of concentrated nitric acid and hydrogen peroxide. Trace metals were analyzed using inductively coupled plasma triple quadrupole mass spectrometry (ICP-QQQ-MS). The ICP-QQQ-MS uses advanced interference removal techniques to ensure accuracy of the sample results. For more information, please visit the *Interference Reduction Technology* section on our website, www.brooksapplied.com.

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**).

Arsenic Speciation Quantitation by IC-ICP-CRC-MS

Each sample for inorganic arsenic (InorgAs), monomethylarsonic acid (MMAs), and dimethylarsinic acid (DMAs) quantitation was extracted on a hotblock in a dilute acidic solution. All resulting extractions were analyzed for arsenic species using ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS).

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**).

Sample results reported for As, Cd, Hg, and Pb were method blank corrected, while all other results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s). All results 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.

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

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

A handwritten signature in cursive script that reads "Amy Goodall". The signature is written in a dark ink and is positioned to the left of the typed name and contact information.

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com



Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received. This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

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	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

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. Please see narrative for explanation.
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.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
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.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.



Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
<i>Risso Scotti - Riso Italiano per Risotto Arborio</i>	2503429-01	Food	Sample	unknown	03/28/2025
<i>Pereg - Sushi Rice Sticky</i>	2503429-02	Food	Sample	unknown	03/28/2025
<i>365 Whole Foods Market - Enriched Calrose Rice Medium Grain</i>	2503429-03	Food	Sample	unknown	03/28/2025
<i>Iberia - Basmati 100% Aged Original</i>	2503429-04	Food	Sample	unknown	03/28/2025
<i>365 Whole Foods Market Arborio White Rice</i>	2503429-05	Food	Sample	unknown	03/28/2025
<i>Sanniti - Arborio Rice</i>	2503429-06	Food	Sample	unknown	03/28/2025
<i>4 Sisters - Extra Long Grain Organic Brown Rice</i>	2503429-07	Food	Sample	unknown	03/28/2025
<i>4 Sisters - Authentic Arborio White Rice</i>	2503429-08	Food	Sample	unknown	03/28/2025
<i>Riso Di Molinella - Superfino Arborio Rice</i>	2503429-09	Food	Sample	unknown	03/28/2025
<i>Royal - Organic Basmati Rice</i>	2503429-10	Food	Sample	unknown	03/28/2025
<i>Khazana - Premium Basmati Rice</i>	2503429-11	Food	Sample	unknown	03/28/2025
<i>Sadaf - Calrose Rice</i>	2503429-12	Food	Sample	unknown	03/28/2025
<i>365 Whole Foods Market - Sushi Rice Short Grain White</i>	2503429-13	Food	Sample	unknown	03/28/2025
<i>Pride of India - Indian White Rice Basmati Rice</i>	2503429-14	Food	Sample	unknown	03/28/2025
<i>Mahatma - Brown Whole Grain Rice</i>	2503429-15	Food	Sample	unknown	03/28/2025
<i>Signature Select - Basmati Rice</i>	2503429-16	Food	Sample	unknown	03/28/2025



Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As	Biota	AOAC 2015.01, Mod	ISO	04/01/25	04/01/25	B250683	S250310
As	Biota	AOAC 2015.01, Mod	ISO	04/02/25	04/02/25	B250686	S250316
Cd	Biota	AOAC 2015.01, Mod	ISO	04/01/25	04/01/25	B250683	S250310
Cd	Biota	AOAC 2015.01, Mod	ISO	04/02/25	04/02/25	B250686	S250316
Cd	Biota	AOAC 2015.01, Mod	ISO	04/07/25	04/07/25	B250734	S250329
DMAs	Biota	SOP BAL-4101	ISO	04/11/25	04/12/25	B250780	S250351
Hg	Biota	AOAC 2015.01, Mod	ISO	04/01/25	04/01/25	B250683	S250310
Hg	Biota	AOAC 2015.01, Mod	ISO	04/02/25	04/02/25	B250686	S250316
InorgAs	Biota	SOP BAL-4101	ISO	04/11/25	04/12/25	B250780	S250351
MMAs	Biota	SOP BAL-4101	ISO	04/11/25	04/12/25	B250780	S250351
Pb	Biota	AOAC 2015.01, Mod	ISO	04/01/25	04/01/25	B250683	S250310
Pb	Biota	AOAC 2015.01, Mod	ISO	04/02/25	04/02/25	B250686	S250316



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Risso Scotti - Riso Italiano per Risotto Arborio										
2503429-01	As	Food	AR	166		1.6	4.8	µg/kg	B250686	S250316
2503429-01	Cd	Food	AR	61.6		0.8	1.9	µg/kg	B250686	S250316
2503429-01	DMAs	Food	AR	58.6		0.247	1.97	µg/kg	B250780	S250351
2503429-01	Hg	Food	AR	5.4		0.3	1.9	µg/kg	B250686	S250316
2503429-01	InorgAs	Food	AR	101		0.494	2.07	µg/kg	B250780	S250351
2503429-01	MMAs	Food	AR	2.56		0.365	1.78	µg/kg	B250780	S250351
2503429-01	Pb	Food	AR	1.1	J	1.0	2.9	µg/kg	B250686	S250316
Pereg - Sushi Rice Sticky										
2503429-02	As	Food	AR	81.7		1.6	4.7	µg/kg	B250686	S250316
2503429-02	Cd	Food	AR	4.9		0.8	1.9	µg/kg	B250686	S250316
2503429-02	DMAs	Food	AR	19.1		0.248	1.98	µg/kg	B250780	S250351
2503429-02	Hg	Food	AR	1.0	J	0.3	1.9	µg/kg	B250686	S250316
2503429-02	InorgAs	Food	AR	54.0		0.496	2.08	µg/kg	B250780	S250351
2503429-02	MMAs	Food	AR	≤ 0.367	U	0.367	1.78	µg/kg	B250780	S250351
2503429-02	Pb	Food	AR	2.2	J	0.9	2.8	µg/kg	B250686	S250316
Iberia - Basmati 100% Aged Original										
2503429-04	As	Food	AR	134		1.7	4.9	µg/kg	B250683	S250310
2503429-04	Cd	Food	AR	24.6		0.8	1.9	µg/kg	B250734	S250329
2503429-04	DMAs	Food	AR	23.7		0.248	1.98	µg/kg	B250780	S250351
2503429-04	Hg	Food	AR	2.4		0.3	1.9	µg/kg	B250683	S250310
2503429-04	InorgAs	Food	AR	96.2		0.495	2.08	µg/kg	B250780	S250351
2503429-04	MMAs	Food	AR	1.73	J	0.366	1.78	µg/kg	B250780	S250351
2503429-04	Pb	Food	AR	1.2	J	1.0	2.9	µg/kg	B250683	S250310
365 Whold Foods Market Arborio White Rice										
2503429-05	As	Food	AR	204		1.6	4.8	µg/kg	B250683	S250310
2503429-05	Cd	Food	AR	12.1		0.8	2.0	µg/kg	B250734	S250329
2503429-05	DMAs	Food	AR	62.6		0.249	1.99	µg/kg	B250780	S250351
2503429-05	Hg	Food	AR	4.2		0.3	1.9	µg/kg	B250683	S250310
2503429-05	InorgAs	Food	AR	103		0.498	2.09	µg/kg	B250780	S250351
2503429-05	MMAs	Food	AR	2.65		0.369	1.79	µg/kg	B250780	S250351
2503429-05	Pb	Food	AR	≤ 1.0	U	1.0	2.9	µg/kg	B250683	S250310



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Sanniti - Arborio Rice										
2503429-06	As	Food	AR	150		1.7	4.9	µg/kg	B250683	S250310
2503429-06	Cd	Food	AR	19.9		0.8	1.9	µg/kg	B250734	S250329
2503429-06	DMAs	Food	AR	62.6		0.246	1.97	µg/kg	B250780	S250351
2503429-06	Hg	Food	AR	3.7		0.3	1.9	µg/kg	B250683	S250310
2503429-06	InorgAs	Food	AR	73.9		0.492	2.06	µg/kg	B250780	S250351
2503429-06	MMAs	Food	AR	3.45		0.364	1.77	µg/kg	B250780	S250351
2503429-06	Pb	Food	AR	≤ 1.0	U	1.0	2.9	µg/kg	B250683	S250310
4 Sisters - Extra Long Grain Organic Brown Rice										
2503429-07	As	Food	AR	305		1.6	4.8	µg/kg	B250683	S250310
2503429-07	Cd	Food	AR	10.9		0.7	1.9	µg/kg	B250734	S250329
2503429-07	DMAs	Food	AR	109		0.249	1.99	µg/kg	B250780	S250351
2503429-07	Hg	Food	AR	3.6		0.3	1.9	µg/kg	B250683	S250310
2503429-07	InorgAs	Food	AR	147		0.498	2.09	µg/kg	B250780	S250351
2503429-07	MMAs	Food	AR	3.66		0.369	1.79	µg/kg	B250780	S250351
2503429-07	Pb	Food	AR	≤ 1.0	U	1.0	2.9	µg/kg	B250683	S250310
4 Sisters - Authentic Arborio White Rice										
2503429-08	As	Food	AR	158		1.4	4.2	µg/kg	B250683	S250310
2503429-08	Cd	Food	AR	9.4		0.8	1.9	µg/kg	B250734	S250329
2503429-08	DMAs	Food	AR	56.1		0.249	1.99	µg/kg	B250780	S250351
2503429-08	Hg	Food	AR	4.3		0.3	1.7	µg/kg	B250683	S250310
2503429-08	InorgAs	Food	AR	87.9		0.497	2.09	µg/kg	B250780	S250351
2503429-08	MMAs	Food	AR	2.32		0.368	1.79	µg/kg	B250780	S250351
2503429-08	Pb	Food	AR	≤ 0.8	U	0.8	2.5	µg/kg	B250683	S250310
Riso Di Molinella - Superfino Arborio Rice										
2503429-09	As	Food	AR	116		1.7	4.9	µg/kg	B250683	S250310
2503429-09	Cd	Food	AR	9.4		0.8	1.9	µg/kg	B250683	S250310
2503429-09	DMAs	Food	AR	21.9		0.250	2.00	µg/kg	B250780	S250351
2503429-09	Hg	Food	AR	3.1		0.3	1.9	µg/kg	B250683	S250310
2503429-09	InorgAs	Food	AR	78.7		0.499	2.10	µg/kg	B250780	S250351
2503429-09	MMAs	Food	AR	1.20	J	0.370	1.80	µg/kg	B250780	S250351
2503429-09	Pb	Food	AR	≤ 1.0	U	1.0	2.9	µg/kg	B250683	S250310



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Royal - Organic Basmati Rice										
2503429-10	As	Food	AR	41.1		1.7	4.9	µg/kg	B250683	S250310
2503429-10	Cd	Food	AR	43.1		0.8	2.0	µg/kg	B250683	S250310
2503429-10	DMAs	Food	AR	10.2		0.248	1.98	µg/kg	B250780	S250351
2503429-10	Hg	Food	AR	1.0	J	0.3	2.0	µg/kg	B250683	S250310
2503429-10	InorgAs	Food	AR	18.2		0.496	2.08	µg/kg	B250780	S250351
2503429-10	MMAs	Food	AR	≤ 0.367	U	0.367	1.78	µg/kg	B250780	S250351
2503429-10	Pb	Food	AR	1.1	J	1.0	3.0	µg/kg	B250683	S250310
Khazana - Premium Basmati Rice										
2503429-11	As	Food	AR	85.4		1.7	4.9	µg/kg	B250683	S250310
2503429-11	Cd	Food	AR	24.3		0.8	2.0	µg/kg	B250683	S250310
2503429-11	DMAs	Food	AR	12.2		0.250	2.00	µg/kg	B250780	S250351
2503429-11	Hg	Food	AR	1.1	J	0.3	2.0	µg/kg	B250683	S250310
2503429-11	InorgAs	Food	AR	70.2		0.499	2.10	µg/kg	B250780	S250351
2503429-11	MMAs	Food	AR	≤ 0.369	U	0.369	1.80	µg/kg	B250780	S250351
2503429-11	Pb	Food	AR	1.7	J	1.0	2.9	µg/kg	B250683	S250310
Sadaf - Calrose Rice										
2503429-12	As	Food	AR	80.3		1.6	4.8	µg/kg	B250683	S250310
2503429-12	Cd	Food	AR	3.9		0.8	1.9	µg/kg	B250683	S250310
2503429-12	DMAs	Food	AR	23.0		0.249	1.99	µg/kg	B250780	S250351
2503429-12	Hg	Food	AR	0.6	J	0.3	1.9	µg/kg	B250683	S250310
2503429-12	InorgAs	Food	AR	52.5		0.499	2.09	µg/kg	B250780	S250351
2503429-12	MMAs	Food	AR	≤ 0.369	U	0.369	1.80	µg/kg	B250780	S250351
2503429-12	Pb	Food	AR	≤ 1.0	U	1.0	2.9	µg/kg	B250683	S250310
365 Whole Foods Market - Sushi Rice Short Grain White										
2503429-13	As	Food	AR	113		1.5	4.4	µg/kg	B250683	S250310
2503429-13	Cd	Food	AR	2.9		0.7	1.8	µg/kg	B250683	S250310
2503429-13	DMAs	Food	AR	16.6		0.247	1.97	µg/kg	B250780	S250351
2503429-13	Hg	Food	AR	0.4	J	0.3	1.8	µg/kg	B250683	S250310
2503429-13	InorgAs	Food	AR	71.1		0.494	2.07	µg/kg	B250780	S250351
2503429-13	MMAs	Food	AR	≤ 0.365	U	0.365	1.78	µg/kg	B250780	S250351
2503429-13	Pb	Food	AR	1.0	J	0.9	2.6	µg/kg	B250683	S250310



Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
Pride of India - Indian White Rice Basmati Rice										
2503429-14	As	Food	AR	85.4		1.6	4.7	µg/kg	B250683	S250310
2503429-14	Cd	Food	AR	19.0		0.8	1.9	µg/kg	B250683	S250310
2503429-14	DMAs	Food	AR	17.8		0.249	1.99	µg/kg	B250780	S250351
2503429-14	Hg	Food	AR	1.6	J	0.3	1.9	µg/kg	B250683	S250310
2503429-14	InorgAs	Food	AR	61.6		0.497	2.09	µg/kg	B250780	S250351
2503429-14	MMAs	Food	AR	≤ 0.368	U	0.368	1.79	µg/kg	B250780	S250351
2503429-14	Pb	Food	AR	2.7	J	0.9	2.8	µg/kg	B250683	S250310
Mahatma - Brown Whole Grain Rice										
2503429-15	As	Food	AR	199		1.4	4.2	µg/kg	B250683	S250310
2503429-15	Cd	Food	AR	25.1		0.7	1.7	µg/kg	B250683	S250310
2503429-15	DMAs	Food	AR	67.1		0.247	1.98	µg/kg	B250780	S250351
2503429-15	Hg	Food	AR	5.2		0.3	1.7	µg/kg	B250683	S250310
2503429-15	InorgAs	Food	AR	119		0.494	2.08	µg/kg	B250780	S250351
2503429-15	MMAs	Food	AR	2.11		0.366	1.78	µg/kg	B250780	S250351
2503429-15	Pb	Food	AR	1.7	J	0.8	2.5	µg/kg	B250683	S250310
Signature Select - Basmati Rice										
2503429-16	As	Food	AR	127		1.6	4.7	µg/kg	B250683	S250310
2503429-16	Cd	Food	AR	21.4		0.8	1.9	µg/kg	B250683	S250310
2503429-16	DMAs	Food	AR	35.2		0.248	1.99	µg/kg	B250780	S250351
2503429-16	Hg	Food	AR	1.5	J	0.3	1.9	µg/kg	B250683	S250310
2503429-16	InorgAs	Food	AR	74.7		0.496	2.08	µg/kg	B250780	S250351
2503429-16	MMAs	Food	AR	0.867	J	0.367	1.79	µg/kg	B250780	S250351
2503429-16	Pb	Food	AR	3.3		0.9	2.8	µg/kg	B250683	S250310



Accuracy & Precision Summary

Batch: B250683
Lab Matrix: Biota
Method: AOAC 2015.01, Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250683-SRM1	Reference Material (2429003, DORM-5 - Fish Protein)						
	As		13300	11600	µg/kg	87% 75-125	
	Cd		148.0	143.3	µg/kg	97% 75-125	
	Hg		316.0	287.9	µg/kg	91% 75-125	
	Pb		58.00	70.62	µg/kg	122% 75-125	
B250683-DUP1	Duplicate, (2503429-01)						
	As	159.9		163.2	µg/kg		2% 30
	Hg	5.33		5.49	µg/kg		3% 30
	Pb	2.66		ND	µg/kg		N/C 30
B250683-MS1	Matrix Spike, (2503429-01)						
	As	159.9	892.9	943.4	µg/kg	88% 70-130	
	Hg	5.33	89.32	88.81	µg/kg	93% 70-130	
	Pb	2.66	89.39	85.58	µg/kg	93% 70-130	
B250683-MSD1	Matrix Spike Duplicate, (2503429-01)						
	As	159.9	846.7	837.8	µg/kg	80% 70-130	9% 30
	Hg	5.33	84.71	81.26	µg/kg	90% 70-130	4% 30
	Pb	2.66	84.78	84.52	µg/kg	97% 70-130	4% 30



Accuracy & Precision Summary

Batch: B250686
Lab Matrix: Biota
Method: AOAC 2015.01, Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250686-SRM1	Reference Material (2429003, DORM-5 - Fish Protein)						
	As		13300	11540	µg/kg	87% 75-125	
	Cd		148.0	140.6	µg/kg	95% 75-125	
	Hg		316.0	277.3	µg/kg	88% 75-125	
	Pb		58.00	58.91	µg/kg	102% 75-125	
B250686-DUP1	Duplicate, (2503429-01)						
	As	165.6		161.7	µg/kg		2% 30
	Cd	61.61		45.80	µg/kg		29% 30
	Hg	5.44		5.46	µg/kg		0.5% 30
	Pb	1.08		ND	µg/kg		N/C 30
B250686-MS1	Matrix Spike, (2503429-01)						
	As	165.6	1992	1834	µg/kg	84% 70-130	
	Cd	61.61	199.2	220.6	µg/kg	80% 70-130	
	Hg	5.44	99.56	110.1	µg/kg	105% 70-130	
	Pb	1.08	199.2	182.1	µg/kg	91% 70-130	
B250686-MSD1	Matrix Spike Duplicate, (2503429-01)						
	As	165.6	1849	1804	µg/kg	89% 70-130	6% 30
	Cd	61.61	184.9	219.5	µg/kg	85% 70-130	7% 30
	Hg	5.44	92.40	108.1	µg/kg	111% 70-130	6% 30
	Pb	1.08	184.9	179.4	µg/kg	96% 70-130	6% 30



Accuracy & Precision Summary

Batch: B250734
Lab Matrix: Biota
Method: AOAC 2015.01, Mod

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250734-SRM1	Reference Material (2429003, DORM-5 - Fish Protein) Cd		148.0	134.3	µg/kg	91% 75-125	
B250734-DUP2	Duplicate, (2503429-08) Cd	9.42		12.63	µg/kg		29% 30
B250734-MS2	Matrix Spike, (2503429-08) Cd	9.42	191.5	182.8	µg/kg	91% 70-130	
B250734-MSD2	Matrix Spike Duplicate, (2503429-08) Cd	9.42	191.3	191.5	µg/kg	95% 70-130	5% 30



Accuracy & Precision Summary

Batch: B250780
Lab Matrix: Biota
Method: SOP BAL-4101

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250780-BS1	Blank Spike, As(III) 5ppm (2427007)						
	InorgAs		261.0	226.8	µg/kg	87% 75-125	
B250780-BS2	Blank Spike, DMA, MMA, As(III) 5 ppm (2441047)						
	DMAs		277.8	269.8	µg/kg	97% 75-125	
	InorgAs		261.0	232.8	µg/kg	89% 75-125	
	MMAs		250.0	241.3	µg/kg	97% 75-125	
B250780-SRM1	Reference Material (2507054, BARI-1 - Baby Cereal Coarse Rice Flour)						
	DMAs		115.0	110.2	µg/kg	96% 75-125	
	InorgAs		113.0	97.40	µg/kg	86% 75-125	
B250780-DUP4	Duplicate, (2503429-07)						
	DMAs	108.7		113.7	µg/kg		4% 25
	InorgAs	146.7		141.6	µg/kg		4% 25
	MMAs	3.664		3.725	µg/kg		2% 25
B250780-MS4	Matrix Spike, DMA, MMA, As(III) 5 ppm (2503429-07)						
	DMAs	108.7	549.7	613.0	µg/kg	92% 75-125	
	InorgAs	146.7	516.5	557.1	µg/kg	79% 75-125	
	MMAs	3.664	494.8	450.9	µg/kg	90% 75-125	
B250780-MSD4	Matrix Spike Duplicate, DMA, MMA, As(III) 5 ppm (2503429-07)						
	DMAs	108.7	547.5	568.6	µg/kg	84% 75-125	9% 25
	InorgAs	146.7	514.5	546.8	µg/kg	78% 75-125	2% 25
	MMAs	3.664	492.8	430.4	µg/kg	87% 75-125	4% 25
B250780-DUP5	Duplicate, (2503429-16)						
	DMAs	35.24		36.94	µg/kg		5% 25
	InorgAs	74.67		72.92	µg/kg		2% 25
	MMAs	0.867		0.877	µg/kg		1% 25
B250780-MS5	Matrix Spike, DMA, MMA, As(III) 5 ppm (2503429-16)						
	DMAs	35.24	549.0	564.2	µg/kg	96% 75-125	
	InorgAs	74.67	515.9	534.6	µg/kg	89% 75-125	
	MMAs	0.867	494.2	456.0	µg/kg	92% 75-125	

Project ID: HBB-DC2401
PM: Amy Goodall



BAL Report 2503429
Client PM: Jane Houlihan
Client Project: HBB-DC2401

Accuracy & Precision Summary

Batch: B250780
Lab Matrix: Biota
Method: SOP BAL-4101

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250780-MSD5	Matrix Spike Duplicate, DMA, MMA, As(III) 5 ppm (2503429-16)						
	DMA _s	35.24	554.4	581.7	µg/kg	99% 75-125	2% 25
	InorgAs	74.67	521.0	528.4	µg/kg	87% 75-125	2% 25
	MMA _s	0.867	499.0	462.4	µg/kg	92% 75-125	0.4% 25



Method Blanks & Reporting Limits

Batch: B250683
Matrix: Biota
Method: AOAC 2015.01, Mod
Analyte: As

Sample	Result	Units			
B250683-BLK1	0.5	µg/kg			
B250683-BLK2	0.5	µg/kg			
B250683-BLK3	0.06	µg/kg			
B250683-BLK4	0.1	µg/kg			
Average: 0.3			Standard Deviation: 0.2	MDL: 1.7	
Limit: 5.0			Limit: 1.7	MRL: 5.0	

Analyte: Cd

Sample	Result	Units			
B250683-BLK1	0.1	µg/kg			
B250683-BLK2	0.1	µg/kg			
B250683-BLK3	0.03	µg/kg			
B250683-BLK4	-0.001	µg/kg			
Average: 0.1			Standard Deviation: 0.1	MDL: 0.8	
Limit: 2.0			Limit: 0.8	MRL: 2.0	

Analyte: Hg

Sample	Result	Units			
B250683-BLK1	0.2	µg/kg			
B250683-BLK2	0.07	µg/kg			
B250683-BLK3	0.08	µg/kg			
B250683-BLK4	0.1	µg/kg			
Average: 0.1			Standard Deviation: 0.1	MDL: 0.3	
Limit: 2.0			Limit: 0.3	MRL: 2.0	



Method Blanks & Reporting Limits

Analyte: Pb

Sample	Result	Units			
B250683-BLK1	0.8	µg/kg			
B250683-BLK2	0.9	µg/kg			
B250683-BLK3	0.4	µg/kg			
B250683-BLK4	0.3	µg/kg			
Average: 0.6			Standard Deviation: 0.3	MDL: 1.0	
Limit: 3.0			Limit: 1.0	MRL: 3.0	



Method Blanks & Reporting Limits

Batch: B250686
Matrix: Biota
Method: AOAC 2015.01, Mod
Analyte: As

Sample	Result	Units			
B250686-BLK1	-0.05	µg/kg			
B250686-BLK2	-0.05	µg/kg			
B250686-BLK3	-0.06	µg/kg			
B250686-BLK4	-0.1	µg/kg			
Average: -0.1			Standard Deviation: 0.0	MDL: 1.7	
Limit: 5.0			Limit: 1.7	MRL: 5.0	

Analyte: Cd

Sample	Result	Units			
B250686-BLK1	0.06	µg/kg			
B250686-BLK2	-0.1	µg/kg			
B250686-BLK3	-0.2	µg/kg			
B250686-BLK4	-0.1	µg/kg			
Average: -0.1			Standard Deviation: 0.1	MDL: 0.8	
Limit: 2.0			Limit: 0.8	MRL: 2.0	

Analyte: Hg

Sample	Result	Units			
B250686-BLK1	0.1	µg/kg			
B250686-BLK2	0.03	µg/kg			
B250686-BLK3	0.06	µg/kg			
B250686-BLK4	0.01	µg/kg			
Average: 0.1			Standard Deviation: 0.0	MDL: 0.3	
Limit: 2.0			Limit: 0.3	MRL: 2.0	



Method Blanks & Reporting Limits

Analyte: Pb

Sample	Result	Units			
B250686-BLK1	0.1	µg/kg			
B250686-BLK2	0.2	µg/kg			
B250686-BLK3	0.1	µg/kg			
B250686-BLK4	0.1	µg/kg			
Average: 0.1			Standard Deviation: 0.0	MDL: 1.0	
Limit: 3.0			Limit: 1.0	MRL: 3.0	



Method Blanks & Reporting Limits

Batch: B250734

Matrix: Biota

Method: AOAC 2015.01, Mod

Analyte: Cd

Sample	Result	Units
B250734-BLK1	0.05	µg/kg
B250734-BLK2	-0.09	µg/kg
B250734-BLK3	0.2	µg/kg
B250734-BLK4	-0.1	µg/kg

Average: 0.0
Limit: 2.0

Standard Deviation: 0.2
Limit: 0.8

MDL: 0.8
MRL: 2.0



Method Blanks & Reporting Limits

Batch: B250780

Matrix: Biota

Method: SOP BAL-4101

Analyte: DMAs

Sample	Result	Units	
B250780-BLK1	0.00	µg/kg	
B250780-BLK2	0.00	µg/kg	
B250780-BLK3	0.00	µg/kg	
B250780-BLK4	0.00	µg/kg	
Average: 0.000			MDL: 0.125
Limit: 1.000			MRL: 1.00

Analyte: InorgAs

Sample	Result	Units	
B250780-BLK1	0.00	µg/kg	
B250780-BLK2	0.00	µg/kg	
B250780-BLK3	0.00	µg/kg	
B250780-BLK4	0.00	µg/kg	
Average: 0.000			MDL: 0.250
Limit: 1.050			MRL: 1.05

Analyte: MMAs

Sample	Result	Units	
B250780-BLK1	0.00	µg/kg	
B250780-BLK2	0.00	µg/kg	
B250780-BLK3	0.00	µg/kg	
B250780-BLK4	0.00	µg/kg	
Average: 0.000			MDL: 0.185
Limit: 0.900			MRL: 0.900



Sample Containers

Lab ID: 2503429-01

Sample: Risso Scotti - Riso Italiano per Risotto Arborio

Report Matrix: Food

Sample Type: Sample

Collected: unknown

Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-02

Sample: Pereg - Sushi Rice Sticky

Report Matrix: Food

Sample Type: Sample

Collected: unknown

Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-03

Sample: 365 Whole Foods Market - Enriched Calrose Rice Medium Grain

Report Matrix: Food

Sample Type: Sample

Collected: unknown

Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-04

Sample: Iberia - Basmati 100% Aged Original

Report Matrix: Food

Sample Type: Sample

Collected: unknown

Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429



Sample Containers

Lab ID: 2503429-05			Report Matrix: Food				Collected: unknown	
Sample: 365 Whold Foods Market Arborio White Rice			Sample Type: Sample				Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.	
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
Lab ID: 2503429-06			Report Matrix: Food				Collected: unknown	
Sample: Sanniti - Arborio Rice			Sample Type: Sample				Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.	
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
Lab ID: 2503429-07			Report Matrix: Food				Collected: unknown	
Sample: 4 Sisters - Extra Long Grain Organic Brown Rice			Sample Type: Sample				Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.	
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
Lab ID: 2503429-08			Report Matrix: Food				Collected: unknown	
Sample: 4 Sisters - Authentic Arborio White Rice			Sample Type: Sample				Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.	
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429	



Sample Containers

Lab ID: 2503429-09				Report Matrix: Food		Collected: unknown	
Sample: Riso Di Molinella - Superfino Arborio Rice				Sample Type: Sample		Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
Lab ID: 2503429-10				Report Matrix: Food		Collected: unknown	
Sample: Royal - Organic Basmati Rice				Sample Type: Sample		Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
Lab ID: 2503429-11				Report Matrix: Food		Collected: unknown	
Sample: Khazana - Premium Basmati Rice				Sample Type: Sample		Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
Lab ID: 2503429-12				Report Matrix: Food		Collected: unknown	
Sample: Sadaf - Calrose Rice				Sample Type: Sample		Received: 03/28/2025	
Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429



Sample Containers

Lab ID: 2503429-13

Sample: 365 Whole Foods Market - Sushi Rice
Short Grain White

Report Matrix: Food
Sample Type: Sample

Collected: unknown
Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-14

Sample: Pride of India - Indian White Rice Basmati
Rice

Report Matrix: Food
Sample Type: Sample

Collected: unknown
Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-15

Sample: Mahatma - Brown Whole Grain Rice

Report Matrix: Food
Sample Type: Sample

Collected: unknown
Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Lab ID: 2503429-16

Sample: Signature Select - Basmati Rice

Report Matrix: Food
Sample Type: Sample

Collected: unknown
Received: 03/28/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Jar HDPE	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429
B	XTRA_VOL	n/a	n/a	none	n/a	n/a	Cardboard Box - 2503429

Project ID: HBB-DC2401
PM: Amy Goodall



BAL Report 2503429
Client PM: Jane Houlihan
Client Project: HBB-DC2401

Shipping Containers

Cardboard Box - 2503429

Received: March 28, 2025 10:00
Tracking No: 1Z Y50 W08 07 4088 5781 via UP
Coolant Type: None
Temperature: Ambient

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

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

From: Jane Houlihan, 3703 Inverness Dr, Chevy Chase MD 20815

To:

Brooks Applied Labs
c/o Sample Control, HBBF Rice Study
13751 Lake City Way NE Suite 108
Seattle, WA 98125

Date: 3/24/25

HBBF sample number	Brand	Product	Store	Date of purchase
HBR-189	Riso Scotti	Riso Italiano per Risotto Arborio	Amazon online	Mar 13, 2025
HBR-190	Pereg	Sushi Rice Sticky	Amazon online	Mar 15, 2025
HBR-191	365 Whole Foods Market	Enriched Calrose Rice Medium Grain	Amazon online	Mar 15, 2025
HBR-192	Iberia	Basmati 100% Aged Original	Amazon online	Mar 15, 2025
HBR-193	365 Whole Foods Market	Arborio White Rice	Amazon online (Whole Foods)	Mar 13, 2025
HBR-194	Sanniti	Arborio Rice	Amazon online	Mar 13, 2025
HBR-195	4 Sisters	Extra Long Grain Organic Brown Rice	Amazon online	Mar 15, 2025
HBR-196	4 Sisters	Authentic Arborio White Rice	Amazon online	Mar 13, 2025
HBR-197	Riso Di Molinella	Superfino Arborio Rice	Amazon online	Mar 13, 2025
HBR-198	Royal	Organic Basmati Rice	Amazon online	Mar 15, 2025
HBR-199	Khazana	Premium Basmati Rice	Amazon online	Mar 15, 2025
HBR-200	Sadaf	Calrose Rice	Amazon online	Mar 15, 2025
HBR-201	365 Whole Foods Market	Sushi Rice Short Grain White	Amazon online (Whole Foods)	Mar 15, 2025
HBR-202	Pride of India	Indian White Basmati Rice	Amazon online	Mar 15, 2025

HBR-203 Mahatma Brown whole grain rice

Safeway 3/25/25

HBR-204 Signature Select Basmati rice

Safeway 3/25/25

CPG 3/28/25 1000
mbr