



# Biosystems Atlanta

A Unit of Biosystems America, Biosystems, Inc.  
*CRO & Independent Laboratories for Accurate and Competitively-Priced Biotechnology*

Dedicated To Excellence Since 1976

## CONFIDENTIAL

### Final Laboratory Analysis Report-Draft

Report No. 863-11508(1)-Orig 11590 6 Pages (with Table 1 + Chart 1) Report Date: 2 Nov 2023

#### SPONSOR INFORMATION

Sponsor: **Roberts Poly Pro, Inc., Div. of Pro Mach**

5416 Wyoming Ave.  
Charlotte, NC 28273

Attention: Roy A Tetreault, Vice President & General Manager

E-mail: Roy.Tetreault@Promachbuilt.com

Telephones (o): 704 588-1794, 704 944-5360 (office)

(c): 704 622-9548 (cell)

Re: **Existing**, Internet/Telephone, Industrial/Prof/Other Referral (Specify if not circled or highlighted): \_\_\_\_\_

#### SAMPLE CHAIN OF CUSTODY

Sampled by: Roy Tetreault, Roberts Poly Pro, Inc. NA, 10:05 AM  
Name: Organization Date, Time

Courier: FedEx 5437-5134-0502

Lab Receipt: GK Batra, Biosystems Atlanta 9-27-2023, 11:15AM  
Name, Organization Date, Time

#### TESTING INFORMATION

**Biosystems Master Log: Original BML 11490 (1)**

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1535-H Oak Industrial Lane, Suite H, Cumming, GA 30041-6404

Telephones: 770-886-6911 (Lab) or 404-664-4622 (direct)

Website: [www.bioatl.com](http://www.bioatl.com) Email: [info@biosystemsamerica.com](mailto:info@biosystemsamerica.com)



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**Sample Description:** One (1) pack of dark plastic sheets, approx. 8 oz. in an unlabeled plastic six-pack dark plastic carrier handle package. For Additional details, see Sample Description Column in Test Results section below.

**Sample Temp on Receipt** Ambient, Refrigerated (5 C), Frozen, -10 C

**Date Processed** 09/27/2022 (Authorized via payment received on 10-13 2022 for biodegradation via Invoice 11508 payment received via CC for Interim Report.

**Test Protocol** AOAC, APHA, ASTM, Bio-SOP, EPA, FDA-BAM, USDA, Vendor SOP, Other (Specify):

**Special Test Medium** N/A

**Special Incubation** N/A

**Technician(s), Assistant(s)** EO, SHB, RK & PB

**Supervisor** Dr. Batra



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**Table 1 Roberts PolyPro Final Laboratory Testing Report 863-11560 (Orig 11490) (1) -56 wks Incubation**

Week	Sample 11490 (1)	Cellulose (+ Control)	EDTA (- Control)	Cumulative CO2	Carbon	% Carbon conversion 863-11490 (1)
0	0	0	0	0	0.00	0.00
1	4	8	0	4	1.50	1.13
2	7	14	0	11	2.63	1.97
3	10	21	0	21	3.75	2.81
4	14	29	0	35	5.25	3.94
5	17	38	0	52	6.38	4.78
6	21	48	0	73	7.88	5.91
7	25	59	0	98	9.38	7.03
8	29	71	0	127	10.88	8.16
9	34	84	0	161	12.75	9.56
10	39	98	0	200	14.63	10.97
11	44	113	0	244	16.50	12.38
12	49	128	0	293	18.38	13.78
13	55	144	0	348	20.63	15.47
14	60	161	0	408	22.50	16.88
15	66	178	0	474	24.75	18.56
16	72	196	0	546	27.00	20.25
17	79	215	0	625	29.63	22.22
18	87	235	0	712	32.63	24.47
19	96	256	0	808	36.00	27.00
20	106	278	0	914	39.75	29.81
21	117	296	0	1031	43.88	32.91
22	129	320	0	1160	48.38	36.28
23	142	339	0	1302	53.25	39.94
24	156	339	0	1458	58.50	43.88
25	171	339	0	1629	64.13	48.09
26	187	339	0	1816	70.13	52.59
27	202	339	0	2018	75.75	56.81
28	216	339	0	2234	81.00	60.75
29	231	339	0	2465	86.63	64.97
30	244	339	0	2709	91.50	68.63
31	256	339	0	2965	96.00	72.00
32	267	339	0	3232	100.13	75.09
33	277	339	0	3509	103.88	77.91
33	285	339	0	3794	106.88	80.16
34	291	339	0	4085	109.13	81.84
35	296	339	0	4381	111.00	83.25
36	300	339	0	4681	112.50	84.38
37	303	339	0	4984	113.63	85.22
38	306	339	0	5290	114.75	86.06
39	308	339	0	5598	115.50	86.63
40	310	339	0	5908	116.25	87.19
41	312	339	0	6220	117.00	87.75
42	314	339	0	6534	117.75	88.31
43	315	339	0	6849	118.13	88.59
44	316	339	0	7165	118.50	88.88
45	317	339	0	7482	118.88	89.16
46	318	339	0	7800	119.25	89.44
47	319	339	0	8119	119.63	89.72
48	320	339	0	8439	120.00	90.00
49	324	339	0	8763	121.50	91.13
50	328	339	0	9091	123.00	92.25
51	336	339	0	9427	126.00	94.50
52	342	339	0	9769	128.25	96.19
53	346	339	0	10115	129.75	97.31
54	350	339	0	10465	131.25	98.44
55	355	339	0	10820	133.13	99.84
56	359	339	0	11179	134.63	100.97

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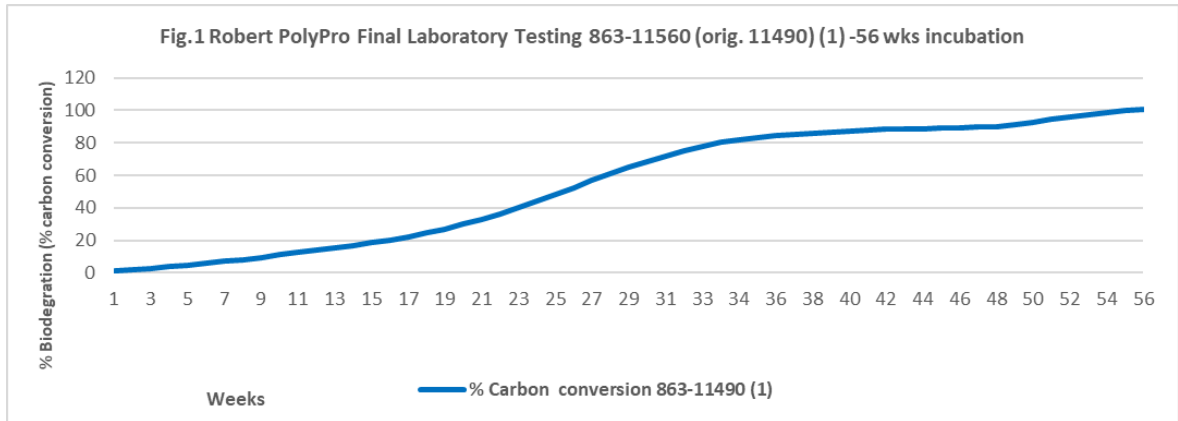
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BML No.	Sample Description	Analyte/Test**	Results
11490-1	One (1) pack of dark plastics sheets, approx. 8 oz. unlabeled, six-pack carrier holder.	Biodegradation ASTM D 6954	See below**
11490-C+	Positive Control Cellulose Aldrich	Biodegradation Aerobic Carbon Conversion	Positive (100 %) (Passed)
11490-C-	Negative Control Ethylenediamine Tetrachloride acetic acid Aldrich	Biodegradation Aerobic Carbon Conversion	Negative (0 %) (Passed)

\* This Interim (Preliminary) Laboratory Report submitted on 07/11/2023 at our Sponsor Request is subject to revision in Final Report to be submitted at the conclusion of our testing.



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#### ABBREVIATIONS, NOTATIONS & NOTES

##### ABBREVIATIONS

ACS = American Chemical Society, APHA = American Public Health Association, AOAC = Association of Official Analytical Chemists, APHA = American Public Health Association, ASM = American Society for Microbiology, ASTM = American Society for Testing Materials, CDC = (US) Centers for Disease Control, CEC = Coordinating European Council, CEFIC = European Chemical Industry Council, CFU = colony forming units, DOX = Deoxycholate agar, EMEA = European Medicines Agency, EU = European Union, EPA = (US) Environmental Protection Agency, FDA BAM = (US) Food and Drug Administration Bacteriological Analytical Manual, g = gram, gpm = gallon per minute, ISO = International Organization for Standardization, kg = kilogram, l = liter, m = meter, mg = milligram ( $10^{-3}$  g), ml = milliliter, mm = millimeter ( $10^{-3}$  m), ug = micrograms ( $10^{-6}$  g), N/A = Not applicable/available, NA = Nutrient agar, ND = Not done, ng = nanogram ( $10^{-9}$  g), NIST = (US) National Institute of Standards & Technology, NIOSH = (US) National Institute of Occupational Health & Safety, NLEA = (US) National Label Education Act, OECD = Organization for Economic Cooperation & Development, QA = Quality Assurance, QC = Quality Control, SAB = Sabourad's dextrose agar, SOP = Standard Operating Procedures, TNTC = Too numerous to count, USDA = US Department of Agriculture.

##### NOTATIONS

= Equal to  
< Less than  
> More than  
 $10^3$  Base 10 raised to the power, e.g., of three (3) = 1,000

##### ADDITIONAL NOTES

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The information given and recommendation(s) made if any are based on our test results, independent research or published data, and are believed to be accurate and reliable, but Biosystems makes no guarantee or warranty as to the accuracy or usefulness of these data for a particular use or purpose. In every case, Biosystems urges and recommends that our sponsors make their own determination

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Respectfully Submitted,  
Biosystems, Inc.

(Signed)  
G.K. "Paul" Batra, PhD, Laboratory Director