

Form 5500-SF

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration
Pension Benefit Guaranty Corporation

Short Form Annual Return/Report of Small Employee Benefit Plan

This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

▶ **Complete all entries in accordance with the instructions to the Form 5500-SF.**

OMB Nos. 1210-0110
1210-0089

2022

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/01/2022

- A** This return/report is for: a single-employer plan a multiple-employer plan (not multiemployer) (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
- B** This return/report is the first return/report the final return/report
 an amended return/report a short plan year return/report (less than 12 months)
- C** Check box if filing under: Form 5558 automatic extension DFVC program
 special extension (enter description)
- D** If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. ▶

Part II Basic Plan Information—enter all requested information

1a Name of plan SPARCBIO, LLC CASH BALANCE PLAN		1b Three-digit plan number (PN) ▶	002
		1c Effective date of plan	01/01/2019
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) SPARCBIO, LLC 998 TULIP COURT SUNNYVALE, CA 94086		2b Employer Identification Number (EIN)	81-3288421
		2c Sponsor's telephone number	650-861-2008
		2d Business code (see instructions)	541990
3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor.		3b Administrator's EIN	
		3c Administrator's telephone number	
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report. a Sponsor's name c Plan Name		4b EIN	
		4d PN	
5a Total number of participants at the beginning of the plan year.....		5a	7
b Total number of participants at the end of the plan year		5b	0
c Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)		5c	
d(1) Total number of active participants at the beginning of the plan year		5d(1)	7
d(2) Total number of active participants at the end of the plan year.....		5d(2)	0
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		5e	0

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	05/22/2023	VANDANA DATE
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor

For Paperwork Reduction Act Notice, see the Instructions for Form 5500-SF.

Form 5500-SF (2022)
v.220413

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.) Yes No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.) Yes No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? Yes No Not determined
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year: 462539. (See instructions.)

Part III Financial Information			
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets.....	7a	508400	0
b Total plan liabilities.....	7b		
c Net plan assets (subtract line 7b from line 7a).....	7c	508400	0
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers.....	8a(1)	175	
(2) Participants.....	8a(2)		
(3) Others (including rollovers).....	8a(3)		
b Other income (loss).....	8b	-78150	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b).....	8c		-77975
d Benefits paid (including direct rollovers and insurance premiums to provide benefits).....	8d	424502	
e Certain deemed and/or corrective distributions (see instructions).....	8e		
f Administrative service providers (salaries, fees, commissions).....	8f	5923	
g Other expenses.....	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g).....	8h		430425
i Net income (loss) (subtract line 8h from line 8c).....	8i		-508400
j Transfers to (from) the plan (see instructions).....	8j		

Part IV Plan Characteristics	
9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1C 3B 3D
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions				
10 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program).....	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.).....	10b		X	
c Was the plan covered by a fidelity bond?.....	10c	X		1000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?.....	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.).....	10e		X	
f Has the plan failed to provide any benefit when due under the plan?.....	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.).....	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.).....	10h			
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.....	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and lines 11a and b below.) If this is a defined contribution pension plan, leave line 11 blank and complete line 12 below. Yes No

a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40..... **11a** 0

b PBGC missed contribution reporting requirements. If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

- Yes.
- No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.
- No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.
- No. Other. Provide explanation _____

12 Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? Yes No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.) If this is a defined benefit pension plan, leave line 12 blank and complete line 11 above.

a If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver.Month Day Year

If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.

b Enter the minimum required contribution for this plan year **12b**

c Enter the amount contributed by the employer to the plan for this plan year **12c**

d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount) **12d**

e Will the minimum funding amount reported on line 12d be met by the funding deadline?..... Yes No N/A

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year? Yes No

If "Yes," enter the amount of any plan assets that reverted to the employer this year..... **13a**

b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?..... Yes No

c If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

13c(1) Name of plan(s):	13c(2) EIN(s)	13c(3) PN(s)

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	<small>OMB No. 1210-0110</small> 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/01/2022

▶ **Round off amounts to nearest dollar.**
 ▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>SPARC BIO, LLC CASH BALANCE PLAN</u>	B Three-digit plan number (PN) ▶	<u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>SPARC BIO, LLC</u>	D Employer Identification Number (EIN) <u>81-3288421</u>	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information			
1 Enter the valuation date: Month <u>03</u> Day <u>31</u> Year <u>2022</u>			
2 Assets:			
a Market value.....	2a	<u>482786</u>	
b Actuarial value	2b	<u>482786</u>	
3 Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	<u>0</u>	<u>0</u>	<u>0</u>
b For terminated vested participants.....	<u>0</u>	<u>0</u>	<u>0</u>
c For active participants.....	<u>7</u>	<u>489930</u>	<u>489930</u>
d Total	<u>7</u>	<u>489930</u>	<u>489930</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>			
a Funding target disregarding prescribed at-risk assumptions.....	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b		
5 Effective interest rate.....	5	<u>5.08 %</u>	
6 Target normal cost			
a Present value of current plan year accruals.....	6a	<u>0</u>	
b Expected plan-related expenses	6b	<u>0</u>	
c Total (line 6a + line 6b)	6c	<u>0</u>	

Statement by Enrolled Actuary
 To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		
	Signature of actuary	<u>05/11/2023</u> Date
	<u>DANIEL J. VAN MIEGHEM</u> Type or print name of actuary	<u>23-02290</u> Most recent enrollment number
	<u>PYRAMID PENSION SERVICES</u> Firm name	<u>805-845-1630</u> Telephone number (including area code)
	<u>P.O. BOX 12605 SAN DIEGO, CA 92112</u> Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions

Part II Beginning of Year Carryover and Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of <u>4.14</u> %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year).....		22816
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.17</u> %.....		0
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance.....		22816
	d Portion of (c) to be added to prefunding balance.....		0
12	Other reductions in balances due to elections or deemed elections.....	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	0

Part III Funding Percentages			
14	Funding target attainment percentage.....	14	98.54 %
15	Adjusted funding target attainment percentage	15	98.57 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	105.92 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls		18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees		
06/22/2022	175	0					
			Totals ▶	18(b)	175	18(c)	0

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
	a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a 0
	b Contributions made to avoid restrictions adjusted to valuation date.	19b 0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c 173
20	Quarterly contributions and liquidity shortfalls:	
	a Did the plan have a "funding shortfall" for the prior year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	<input type="checkbox"/> Yes <input type="checkbox"/> No
	c If line 20a is "Yes," see instructions and complete the following table as applicable:	

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:

a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	<input type="checkbox"/> N/A, full yield curve used
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b Applicable month (enter code)..... **21b** 4

22 Weighted average retirement age **22** 62

23 Mortality table(s) (see instructions) Prescribed - combined Prescribed - separate Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment. Yes No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. Yes No

26 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. Yes No

b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ... Yes No

27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment **27**

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years.....	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):

a Target normal cost (line 6c).....	31a	0
b Excess assets, if applicable, but not greater than line 31a	31b	0

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	7144	163
b Waiver amortization installment.....		

33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount **33**

34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	163
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	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0

36 Additional cash requirement (line 34 minus line 35)..... **36** 163

37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)..... **37** 173

38 Present value of excess contributions for current year (see instructions)

a Total (excess, if any, of line 37 over line 36)	38a	10
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0

39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)..... **39** 0

40 Unpaid minimum required contributions for all years..... **40** 0

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. 2019 2020 2021

Plan Number: 002
EIN: 81-3288421

Statement of Actuarial Assumptions/Methods

1. Funding Method	As Prescribed in IRC Section 430			
2. Interest Rates for Funding	4 Lookback Months Prior to End of Plan Year			
		<u>Current</u>	<u>Average</u>	<u>For Minimum</u>
Years 0-5	Segment Rate 1	0.96%	5.00%	4.75%
Years 6-20	Segment Rate 2	2.64%	5.45%	5.18%
Years Over 20	Segment Rate 3	3.32%	6.23%	5.92%
3. Mortality for Funding				
Pre-Retirement	None			
Post-Retirement	Projection Based on Projection Scale AA and the RP-2000 Static Combined Male and Static Combined Female Mortality Table			
4. Interest Rates per Internal Revenue Code	3 Lookback Months Prior to End of Plan Year			
Years 0-5	Segment Rate 1	1.16%		
Years 6-20	Segment Rate 2	2.72%		
Years > 20	Segment Rate 3	3.10%		
5. Mortality per Internal Revenue Code				
Pre-Retirement	None			
Post-Retirement	Applicable Mortality Table from Rev. Rul. 2006-67 - Unisex			
6. Interest Rates for Plan Actuarial Equivalence				
Pre-Retirement	4.00%			
Post-Retirement	4.00%			
7. Mortality for Plan Actuarial Equivalence				
Pre-Retirement	None			
Post-Retirement	Applicable Table for Plan Year under IRC 417(e)			
8. Assumptions for 410(b) and 401(a)(4) Testing and Compliance				
Pre-Retirement Interest	8.50%			
Post-Retirement Interest	8.50%			
Pre-Retirement Mortality	None			
Post-Retirement Mortality	1971 Group Annuity Table - Male Rates			
Testing Age	Normal Retirement Age			
Permissively Aggregated Plans Tested as Single Plan				
Note: These Assumptions are Utilized to Determine Compliance and, in Order to Pass Testing Might be Changed for This Plan Year or any Other Plan Year				
9. Benefit Form for Funding	Lump Sum			
10. Assumed Retirement Age	Normal Retirement Age			
11. Effective Interest Rate				
This Year	5.08%			
Last Year	5.17%			
12. Actual Interest Rate				
This Year	-0.14%			
Last Year	4.14%			

**SCHEDULE SB
(Form 5500)**

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

**Single-Employer Defined Benefit Plan
Actuarial Information**

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/01/2022

▶ **Round off amounts to nearest dollar.**


▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan Sparcbio, LLC Cash Balance Plan		B Three-digit plan number (PN) ▶	002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Sparcbio, LLC		D Employer Identification Number (EIN) 81-3288421	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B		F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information			
1	Enter the valuation date:	Month <u>03</u> Day <u>31</u> Year <u>2022</u>	
2	Assets:		
	a Market value	2a	482,786
	b Actuarial value	2b	482,786
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	0	0
	b For terminated vested participants	0	0
	c For active participants	7	489,930
	d Total	7	489,930
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>		
	a Funding target disregarding prescribed at-risk assumptions	4a	
	b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b	
5	Effective interest rate	5	5.08%
6	Target normal cost		
	a Present value of current plan year accruals	6a	0
	b Expected plan-related expenses	6b	0
	c Total (line 6a + line 6b)	6c	0

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		05/11/2023
	Signature of actuary	Date
Daniel J. Van Mieghem		2302290
Type or print name of actuary		Most recent enrollment number
Pyramid Pension Services		805-845-1630
Firm name		Telephone number (including area code)
P.O. Box 12605		
San Diego CA 92112		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions

For Paperwork Reduction Act Notice, see the Instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2022
v. 220413

Part II	Beginning of Year Carryover and Prefunding Balances	
	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	0
10 Interest on line 9 using prior year's actual return of <u>4.14</u> %	0	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		22,816
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.17</u> %		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		22,816
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III	Funding Percentages	
14 Funding target attainment percentage	14	98.54 %
15 Adjusted funding target attainment percentage	15	98.57 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	105.92 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV	Contributions and Liquidity Shortfalls				
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
06/22/2022	175	0			
Totals ▶			18(b)	175	18(c)
					0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
a Contributions allocated toward unpaid minimum required contributions from prior years	19a 0
b Contributions made to avoid restrictions adjusted to valuation date	19b 0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c 173
20 Quarterly contributions and liquidity shortfalls:	
a Did the plan have a "funding shortfall" for the prior year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	<input type="checkbox"/> Yes <input type="checkbox"/> No
c If line 20a is "Yes," see instructions and complete the following table as applicable:	

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost				
21	Discount rate:			
a	Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %
		<input type="checkbox"/> N/A, full yield curve used		
b	Applicable month (enter code)	21b	4	
22	Weighted average retirement age	22	62	
23	Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined	<input type="checkbox"/> Prescribed - separate	<input type="checkbox"/> Substitute

Part VI Miscellaneous Items				
24	Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment..... <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
25	Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment..... <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
26	Demographic and benefit information			
a	Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b	Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
27	If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27		

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years				
28	Unpaid minimum required contributions for all prior years	28	0	
29	Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0	
30	Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0	

Part VIII Minimum Required Contribution For Current Year					
31	Target normal cost and excess assets (see instructions):				
a	Target normal cost (line 6c)	31a	0		
b	Excess assets, if applicable, but not greater than line 31a	31b	0		
32	Amortization installments:	Outstanding Balance	Installment		
a	Net shortfall amortization installment	7,144	163		
b	Waiver amortization installment.....				
33	If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33		
34	Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....			34	163
35	Balances elected for use to offset funding requirement	0	0	0	
36	Additional cash requirement (line 34 minus line 35)			36	163
37	Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)			37	173
38	Present value of excess contributions for current year (see instructions)				
a	Total (excess, if any, of line 37 over line 36)			38a	10
b	Portion included in line 38a attributable to use of prefunding and funding standard carryover balances.....			38b	0
39	Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)			39	0
40	Unpaid minimum required contributions for all years			40	0

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)				
41	If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021			

Sparcbio, LLC
Cash Balance Plan

Plan Number: 002
 EIN: 81-3288421

Effective Interest Rate: 5.08%
 Penalty Rate: n/a

2022 Schedule SB, Line 19 - Discounted Employer Contributions

Valuation Date: 03/31/2022

Date	Contribution	Quarterly Contributions Discounted to Valuation date				Additional Contribution	Total Discounted Contribution
		04/15/2022	07/15/2022	10/15/2022	01/15/2023		

06/22/2022	175.00	0.00	0.00	0.00	0.00	173.04	173.04
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Total 173.04

Sparcbio, LLC

Cash Balance Plan

Plan Number: 002

EIN: 81-3288421

2022 Schedule SB, Line 22 - Description of Weighted Average Retirement Age

Valuation Date: 03/31/2022

The age reported is the average of the assumed retirement ages for all active participants as of the valuation date rounded to the nearest whole age. For an active late retiree, the assumed age may be later than the Plan's normal retirement age. Each participant's rate of retirement is assumed to be 100% of their assumed retirement age.

Plan Number: 002

EIN: 81-3288421

Summary of Plan Provisions

- 1. Plan Effective Date** January 01, 2019
- 2. Valuation Date** March 31, 2022
- 3. Plan Year** From January 01 to March 31
- 4. Eligibility** All Employees not Excluded by Class are eligible to enter on the January 01 or July 01 Coincident with or Next Following the Completion of the Following Requirements:
 - 12 Months of Service
 - Attainment of Age 21

Union Employees and Non-Resident Aliens are Excluded.
- 5. Normal Retirement Age** All Participants are Eligible to Retire on the Later of:
 - Attainment of Age 62
 - Completion of 5 Years of Participation
- 6. Normal Retirement Benefit** A benefit based upon the Actuarial Equivalent of a projected Account Balance at Normal Retirement with 4.0% Interest credited to the following annual rate of contributions.

 The Following Percent of Compensation limited as Indicated by the Dollar Amount

Group	% of Comp	\$ Amount
Group 1	69.00% Maximum	\$192,000.00
Group 2	80.00% Maximum	\$223,000.00
Group 3	4.00% Maximum	\$4,100.00
Group 4	4.00% Maximum	\$4,100.00

- 7. Years Excluded** Years Prior to a Participant's Entry Date are Excluded
- 8. Normal Form Of Benefit** An Annuity Payable for the Life of the Participant
- 9. Termination Benefits** Upon Termination of Participation for a Reason other than Death, Disability or Retirement, a Participant is Entitled to a Portion of the Earned to Date Actuarial Equivalent of the Accrued Benefit in Accordance with the Following Vesting Schedule:

Credited Years	Vested Percent
1	100
2	100
3	100
4	100
5	100
6	100

Credited Years are Plan Years Excluding the Following:

- Years with Less Than 1000 Hours
- Years Before the Effective Date of the Plan

- 10. Death Benefit** 100% of the Actuarial Equivalent of the Accrued Benefit Earned to the Date of Death

Sparcbio, LLC

Cash Balance Plan

Plan Number: 002

EIN: 81-3288421

2022 Schedule SB, Line 32 - Schedule of Amortization Bases

Valuation Date: 03/31/2022

Date Base Established	Years Remaining	Shortfall Base	Shortfall Installment	Present Value
03/31/2022	15	7,144.26	660.21	7,144.26
Total		7,144.26	660.21	7,144.26

Short Year Installment = 163.00