



November 29th, 2023

Students: Jake Melman-Rogers, Ryan Durr, Theresa Yu CRL 4 03/15/2031 Sr. Unsecured Bonds

Recommendation: BUY Current Price: \$85.91 1-YR Target Price: \$87.03

Potential Return: 7.0%



Key Facts:

Charles River Labs is a contract research organization (CRO) that provides products and services to expedite the discovery, development, and safe manufacturing of novel drugs and therapeutics.

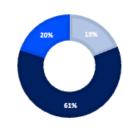
Clients include large pharmaceutical companies, government agencies, leading hospitals, and academic institutions.

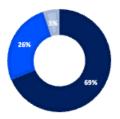
FY 2022 REVENUE BY SEGMENT FY 202

FY 2022 REVENUE BY GEOGRAPHY

RMS DSA Manufacturing

North America Europe Asia-Pacific





Research Model Services (RMS): Provides non-human research models (animals) for pre-clinical testing

CRL's three core business segments

Discovery & Safety Assessment (DSA): Offers products and services that enable necessary drug discovery and development activities Manufacturing (MFG): Provides resources to support the manufacturing and production of drugs and therapies



NCG-HLA-A2.1 Model (Oncology and infectious diseases)

Key Competitors:



Image from a CRL musculoskeletal bone toxicity study



CRL Cell Therapy Manufacturing facility in Memphis, TN

Research & Development Continuum

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We are recommending the CRL 4% 03/15/2031 Sr. Unsecured Bond

Description	Maturity	Price	Coupon	OAS	Yield to Worst	Duration	Am	ount (\$000)
1st Lien Secured Loans								
CRL REV 1L	4/21/2020	6 -	0	-	-	-	\$	1,003,744
Senior Unsecured Loan	s							
CITGRO TL UNSEC	6/12/2024	4 99.50	4.7	-	-	-	\$	12,400
Senior Unsecured Bond	ls							
CRL 4 1/4	5/1/202	8 91.20	4.25	185	6.51	3.97	\$	500,000
CRL 3 3/4	3/15/202	9 87.54	3.75	211	6.68	4.67	\$	500,000
CRL4	3/15/203	1 85.91	4	204	6.66	6.1	\$	500,000
Total							\$	2,516,144

	2023E
Capital Structure	Leverage
1st Lien Secured Loans	.96x
Senior Unsecured Loans	.01x
Senior Unsecured Bonds	1.4x

Leverage Ratios	2023E
EV/EBITDA	12x
Interest Coverage	7.6x

ONE YEAR TIME HORIZON

Current Bond Price	\$ 85.91
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Base Case	
Total Spread Compression	30 bps
Implied Bond Price	\$ 87.03
Annualized Total Return	7.0%

We recommend the CRL 4 03/15/2031 bond due to its longer duration and higher coupon.

Investment Thesis



Critical supplier with a diversified customer base

- No client makes up more than 3% of CRL's revenue or more than 8% of a particular segment's revenue.
- Large footprint in FDA drug approval process.



1

Well-positioned to capitalize on Cell & Gene Therapy market

- CRL's robust product and service offerings make them the partner of choice for companies in the rapidly growing Cell & Gene Therapy market.
- CRL's proprietary technology adds speed, efficiency, and predictability to the R&D process.



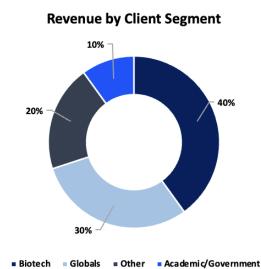
Stable and consistent leverage ratios and margins

• CRL management has been able to maintain constant margins and leverage ratios below those of competitors.



Thesis #1: Critical Supplier With a Diversified Client Base

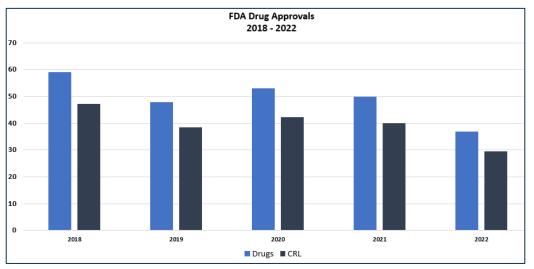
CRL's involvement in the pre-clinical ecosystem and diversified client base enhances company profile

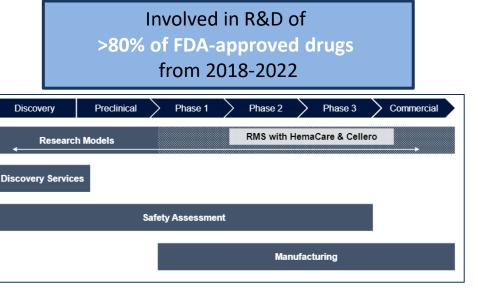


No single customer accounts for more than 3% of total revenue or more than 8% of segment revenue.

Top 25 clients account for ~30% of total revenue.

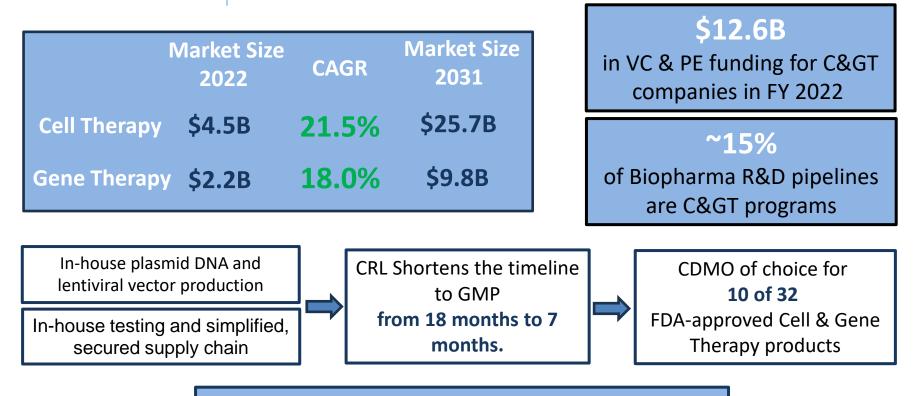








CRL offers customers a quick, cost-efficient, and predictable path to commercial viability



CRL allows customers to run 120 assays per minute

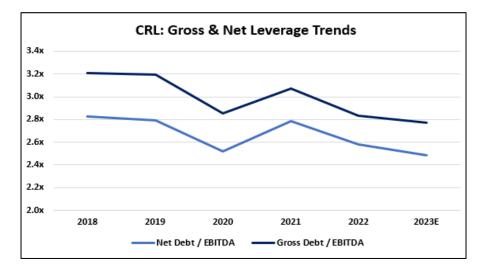
"120 assays per minute. That's a lot of assays. [At NIH] we aim to run one assay every 90 seconds if everything is running smoothly."

-Safa S., C> Researcher at the National Institute of Health



Thesis #3: Stable Leverage & Margins

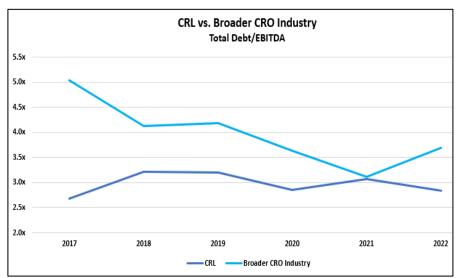
CRL has maintained consistent margins and leverage ratios

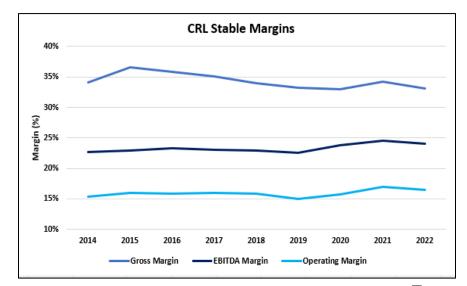


Stable Margins and Leverage Ratios

Margin stability is evidence of management's ability to maintain revenue growth and responsibly manage costs.

CRL's leverage ratio indicates a **responsible** capital allocation strategy.





Valuation



	_		Historical			F	Projection	s
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Total Debt/EBITDA		3.42	2.96	3.13	2.94	2.77	2.64	2.30
Net Debt/EBITDA		2.99	2.62	2.86	2.70	2.49	2.43	2.04

			Historical			F	Projection	s
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Revenue	2,266.2	2,621.2	2,924.0	3,630.4	3,976.1	4,114.3	4,278.9	4,920.7
% Growth (YoY)		15.7%	11.6%	24.2%	9.5%	3.5%	4.0%	15.0%
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	1,093.0	1,257.0
Margin	22.2%	21.4%	23.4%	24.6%	24.2%	25.3%	25.5%	25.5%
% Growth (YoY)		11.5%	21.9%	30.4%	7.9%	8.1%	4.9%	15.0%
Free Cash Flow								
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	1,093.0	1,257.0
Remaining Free Cash Flow	224.7	328.0	287.4	545.8	175.2	336.2	474.6	566.7
Dividends		· .	-		-	-	-	
Acquisitions	(824.9)	(515.8)	(418.7)	(1,293.1)	(283.4)	(200.0)	(400.0)	(400.0)
Share Repurchases (Net)	(13.8)	(18.1)	(24.0)	(40.7)	(38.7)	(29.0)	(5.0)	(5.0)
Remaining Free Cash Flow	(614.0)	(205.9)	(155.3)	(788.0)	(146.9)	107.2	69.6	161.7
Balance Sheet								
Cash	195.4	238.0	228.42	241.21	233.91	301.1	237.3	329.3
Revolver Total (Contract)		676.1				953.7	993.7	1,033.7
Revolver Drawn		279.1	138.7	346.6	36.2	40.0	40.0	40.0
Revolver Availability		676.1	814.8	1,161.4	1,197.6	993.7	1,033.7	1,073.7
Total Liquidity	'	1,352.2	1,043.22	1,402.61	1,431.51	1,294.8	1,271.0	1,403.0
Long-Term Debt	1,636.6	1,849.7	1,929.6	2,663.6	2,707.5	2,488.1	2,488.1	2,488.1
Current Portion of Long-Term Debt	8.8	5.0	7.5	7.5	7.5	2.7	2.7	2.7
Leases		66.5	88.2	120.2	122.5	400.0	400.0	400.0
Total Debt	1,645.4	1,921.1	2,025.2	2,791.2	2,837.5	2,890.8	2,890.8	2,890.8

ONE YEAR TIME HORIZON					
Current Bond Price	Ś	85.91			

Base Case	
Total Spread Compression	30 bps
Implied Bond Price	\$ 87.03
Annualized Total Return	7.0%

Assumptions

Consensus revenue and EBITDA estimates in 2023 and 2024

15% revenue growth in 2025, return to 10-year CAGR growth

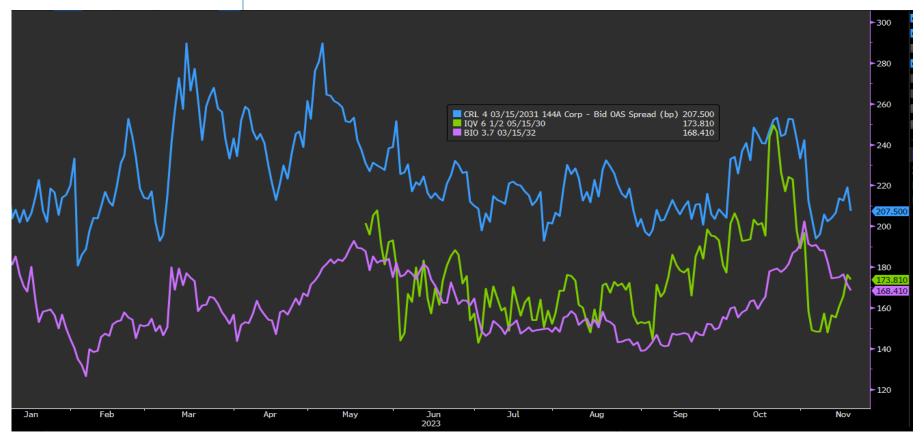
25% EBITDA margin in 2024 and 2025

Capital Allocation:

- No dividend payouts
- Continued emphasis on acquisitiondriven growth
- Insignificant share repurchases



Relative Value



			S&P	Moody's		Bid OAS	Net Leverage	EBITDA /	Spread /
Company	Security	Outstanding	Rating	Rating	YTW	Spread	(LTM)	Interest	Leverage
CHARLES RIVER LABORATORI	CRL 4 03/15/31	500,000,000	BB	Ba2	6.73	207.5	2.8x	16.4x	73
IQVIA INC	IQV 6 1/2 05/15/30	500,000,000	BB	Ba2	6.64	173.8	3.9x	7.5x	44
BIO-RAD LABS	BIO 3.7 03/15/32	800,000,000	BBB	Baa2	6.42	168.4	1.6x	15.0x	103



MEDIUM

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An economic downturn may adversely affect R&D budgets

• CRL is heavily dependent on companies outsourcing certain parts of the R&D processes, thus an economic downturn may reduce demand for their services.

2

Increased government regulation

Risks

 CRL operates in a very highly regulated industry especially in its RMS segment; any large-scale changes in regulation may greatly impact the company's profitability.

3

LOW

Unexpected invocations of force majeure clauses

• Clients can end contracts on short notice if efficacy of drug becomes unlikely or if profitability becomes infeasible.

Questions





CRL 4 03/15/2031 Sr. Unsecured Bonds

Recommendation: BUY Current Price: \$85.91 1-YR Target Price: \$87.03

Potential Return: 7.0%

ONE YEAR TIME HORIZON

Current Bond Price	\$	85.91
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Base Case	
Total Spread Compression	30 bps
Implied Bond Price	\$ 87.03
Annualized Total Return	7.0%

Bull Case	
Total Spread Compression	50 bps
Implied Bond Price	\$ 88.11
Annualized Total Return	8.2%

Bear Case	
Total Spread Compression	-50 bps
Implied Bond Price	\$ 82.88
Annualized Total Return	2.2%



Bear Case



			Historical			l	Projections	;
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Revenue	2,266.2	2,621.2	2,924.0	3,630.4	3,976.1	4,114.3	3,702.9	3,490.0
% Growth (YoY)		15.7%	11.6%	24.2%	9.5%	3.5%	(10.0%)	(5.8%)
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	937.8	887.5
Margin	22.2%	21.4%	23.4%	24.6%	24.2%	25.3%	25.3%	25.4%
% Growth (YoY)		11.5%	21.9%	30.4%	7.9%	8.1%	(10.0%)	(5.4%)
Free Cash Flow								
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	937.8	887.5
CapEx	(140.5)	(140.5)	(166.6)	(228.8)	(324.7)	(319.7)	(243.8)	(230.7)
Interest Expense	(26.4)	(46.9)	(86.4)	(73.9)	(59.3)	(138.0)	(139.2)	(145.4)
Taxes	(82.6)	(50.0)	(81.8)	(81.9)	(130.4)	(123.9)	(131.3)	(124.2)
Change in Working Capital	(14.2)	3.4	(62.8)	37.4	(273.9)	(99.0)	(42.0)	(42.0)
Remaining Free Cash Flow	224.7	328.0	287.4	545.8	175.2	336.2	381.5	345.1
Dividends	-	-	-	-	-	-	-	-
Acquisitions	(824.9)	(515.8)	(418.7)	(1,293.1)	(283.4)	(200.0)	(400.0)	(400.0)
Share Repurchases (Net)	(13.8)	(18.1)	(24.0)	(40.7)	(38.7)	(29.0)	(5.0)	(5.0)
Remaining Free Cash Flow	(614.0)	(205.9)	(155.3)	(788.0)	(146.9)	107.2	(23.5)	(59.9)
Balance Sheet								
Cash	195.4	238.0	228.42	241.21	233.91	301.1	144.2	107.7
Long-Term Debt	1,636.6	1,849.7	1,929.6	2,663.6	2,707.5	2,488.1	2,488.1	2,488.1
Current Portion of Long-Term Debt	8.8	5.0	7.5	7.5	7.5	2.7	2.7	2.7
Leases	-	66.5	88.2	120.2	122.5	400.0	400.0	400.0
Total Debt	1,645.4	1,921.1	2,025.2	2,791.2	2,837.5	2,890.8	2,890.8	2,890.8
Credit Statistics								
Total Debt/EBITDA		3.42	2.96	3.13	2.94	2.77	3.08	3.26
Net Debt/EBITDA		2.99	2.62	2.86	2.70	2.49	2.93	3.14

Bear Case		
Total Spread Compression	-	50 bps
Implied Bond Price	\$	82.88
Annualized Total Return		2.2%

Assumptions:

- Consensus revenue and EBITDA estimates in 2023
- Assumes 2008-2009 financial crisis

Bear Case



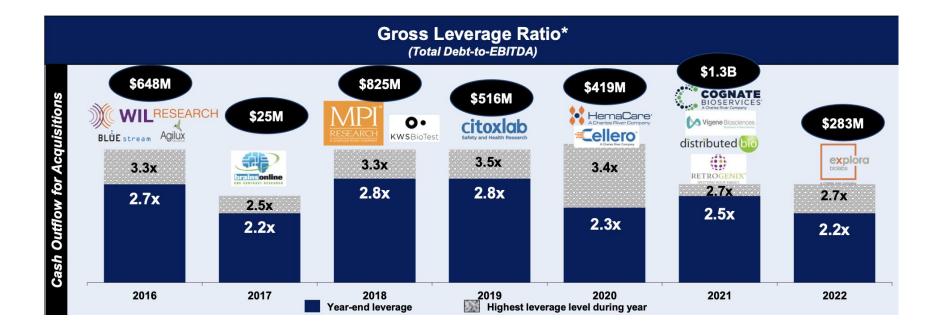
			Historical			F	Projection	;
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Revenue	2,266.2	2,621.2	2,924.0	3,630.4	3,976.1	4,114.3	4,731.5	5,441.2
% Growth (YoY)		15.7%	11.6%	24.2%	9.5%	3.5%	15.0%	15.0%
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	1,093.0	1,383.7
Margin	22.2%	21.4%	23.4%	24.6%	24.2%	25.3%	23.1%	25.4%
% Growth (YoY)		11.5%	21.9%	30.4%	7.9%	8.1%	4.9%	26.6%
Free Cash Flow								
EBITDA	504.0	562.0	685.0	893.0	963.5	1,042.0	1,093.0	1,383.7
CapEx	(140.5)	(140.5)	(166.6)	(228.8)	(324.7)	(319.7)	(284.2)	(359.8)
Interest Expense	(26.4)	(46.9)	(86.4)	(73.9)	(59.3)	(138.0)	(139.2)	(145.4)
Taxes	(82.6)	(50.0)		(81.9)	(130.4)	(123.9)	(153.0)	(193.7)
Change in Working Capital	(14.2)	3.4	(62.8)	37.4	(273.9)	(99.0)	(42.0)	(42.0)
Remaining Free Cash Flow	224.7	328.0	287.4	545.8	175.2	336.2	474.6	642.8
Dividends	_		_	_	_	-	_	-
Acquisitions	(824.9)	(515.8)	(418.7)	(1,293.1)	(283.4)	(200.0)	(100.0)	(100.0)
Share Repurchases (Net)	(13.8)	(18.1)	(24.0)	(40.7)	(38.7)	(29.0)	(5.0)	(5.0)
Remaining Free Cash Flow	(614.0)	(205.9)				107.2	369.6	537.8
Balance Sheet								
Cash	195.4	238.0	228.42	241.21	233.91	301.1	537.3	705.4
Cash	195.4	256.0	220.42	241.21	255.51	501.1	357.5	705.4
Long-Term Debt	1,636.6	1,849.7	1,929.6	2,663.6	2,707.5	2,488.1	2,488.1	2,488.1
Current Portion of Long-Term Debt	8.8	5.0	7.5	7.5	7.5	2.7	2.7	2.7
Leases	-	66.5	88.2	120.2	122.5	400.0	400.0	400.0
Total Debt	1,645.4	1,921.1	2,025.2	2,791.2	2,837.5	2,890.8	2,890.8	2,890.8
Credit Statistics								
Total Debt/EBITDA		3.42	2.96	3.13	2.94	2.77	2.64	2.09
Net Debt/EBITDA		2.99	2.62	2.86	2.70	2.49	2.15	1.58

Bull Case	
Total Spread Compression	50 bps
Implied Bond Price	\$ 88.11
Annualized Total Return	8.2%

Assumptions:

- Consensus revenue and EBITDA estimates in 2023
- Assumes LT growth CAGR





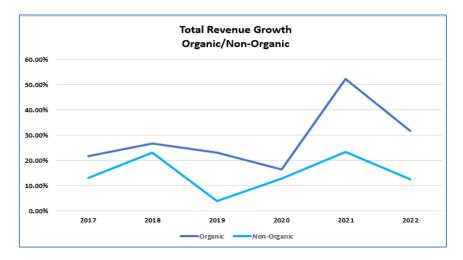


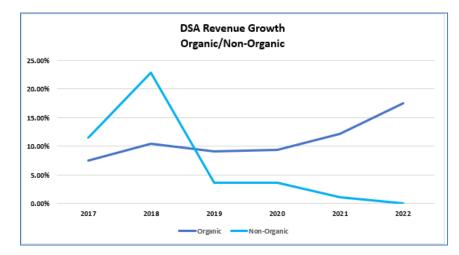
					Annual Revenue (Pre-Acq)		
Date	Company	Price (\$mm) Funding Source	Cash	Draw on Revolver	(\$mm)	Sales Multiple	Reporting Segment
	1/30/2023 SAMDI Tech	\$50 Cash	\$50	0			DSA
	4/6/2022 Explora Labs	\$295 Cash	\$6.6	\$285	\$38	7.8x	RMS
1	10/12/2021 Vigene Biosciences	\$293 Cash	\$293	0			DSA
	3/31/2021 Retrogenix Limited	\$48 Cash	\$9	\$40			DSA
	3/29/2021 Cognate BioServices	\$875 Cash/Notes	\$875	0	\$140	6.3x	DSA
1	12/31/2020 Distributed Bio	\$83 Cash	\$83	0	\$15	5.5x	DSA
	8/5/2020 Cellero	\$38 Cash	\$38	0			RMS
	1/30/2020 HemaCare Corp	\$380 Cash	\$380	0	\$50	7.6x	RMS
	4/29/2019 Citoxlab	\$500 Cash	\$500	0	\$200	2.5x	RMS

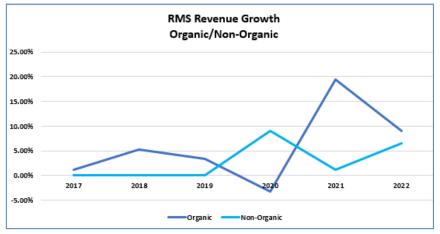


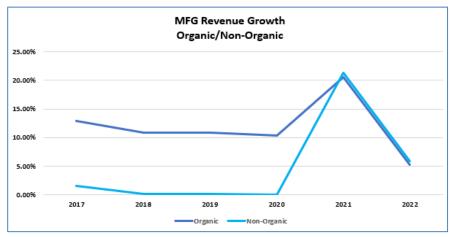
Organic/In-Organic Revenues

Stable organic revenue growth













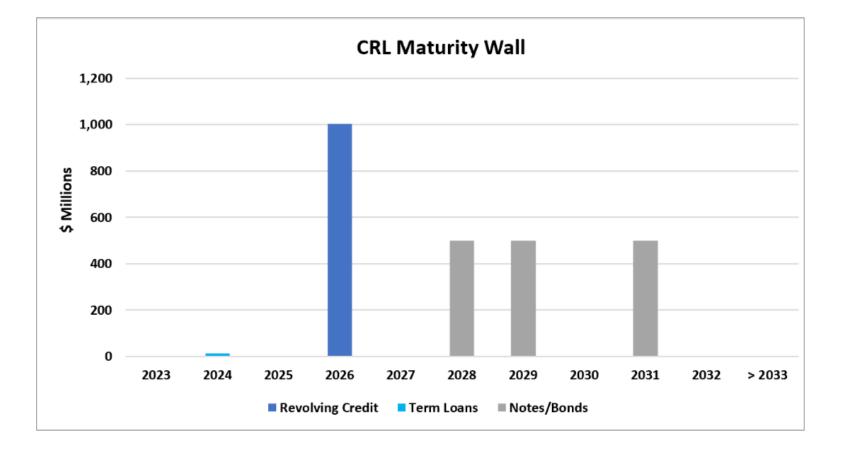
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Security	B/S	Amt (M)	E)ate	Price	Yie	ld W	Ri	sk	Rate
CRL 4 03/15/31	B	1,000	11/17/2	23 🗄 8	5.910000	6.4411	70 W	- 5	27 Repo	5.350
Scenario Results										
Reinvestment Rate 0.000	ł									
Horizon Date		Horizor	11/18	/2024 🖻	Carry 18.1	bp Ro	lldown	0.5 bp	Total 1	8 .5 bp
Scenario Name	Total	Return %	HPR & Ho	rizon Px	Horizon Yld	Net P&L	(USD)	B/E Yield	Mod Dur	Convexity
Target Horizon Yields 10										
- +20 bps		-0.105	-0.105	86.531	6.641	-911		6.622	5.367	0.340
- +10 bps		0.435	0.437	87.001	6.541	3,786		6.622	5.372	0.340
- 0 bps		0.978	0.983	87.473	6.441	8,512		6.622	5.377	0.341
		1.522	1.532	87.949	6.341	13,268		6.622	5.382	0.341
20 bps		2.068	2.085	88.427	6.241	18,054		6.622	5.387	0.342
Historical Yield										
Curve Shifts (I25) 3) E	lit Benchm	ark Curves	5							
Implied Fwd Curve	~	1.743	1.755	88.142	6.301	15,199		6.622	5.384	0.342



Holder Name	Count Source	Held Amount	Position	% Out Filing Date
	•			
1. T Rowe Price Group Inc	3 ULT-AGG	101,230,000	101,230	3.37 09/30/23
2. • All Debt (3)				
4. CRL 3 ³ / ₄ 03/15/29	ULT-AGG	47,375,000	47,375	9.48 09/30/23
5. CRL 4 03/15/31	ULT-AGG	36,274,000	36,274	7.25 09/30/23
6. CRL 4 ¹ / ₄ 05/01/28	ULT-AGG	17,581,000	17,581	3.52 09/30/23
6. • T Rowe Price Associates Inc	3 MF-AGG	101,230,000	101,230	3.37 09/30/23
7. • All Debt (3)				
9. CRL 3 ³ ₄ 03/15/29	MF-AGG	47,375,000	47,375	9.48 09/30/23
10. CRL 4 03/15/31	MF-AGG	36,274,000	36,274	7.25 09/30/23
11. CRL 4 ¹ / ₄ 05/01/28	MF-AGG	17,581,000	17,581	3.52 09/30/23
11. T ROWE PRICE ASSOCIATES INC	3 MF-AGG	101,230,000	101,230	3.37 09/30/23
12. • Capital Group Cos Inc/The	3 ULT-AGG	68,822,000	68,822	2.29 11/17/23
13. • All Debt (3)				
15. CRL 4 ¹ / ₄ 05/01/28	ULT-AGG	39,248,000	39,248	7.85 09/30/23
16. CRL 3 ³ / ₄ 03/15/29	ULT-AGG	27,234,000	27,234	5.45 11/17/23
17. CRL 4 03/15/31	ULT-AGG	2,340,000	2,340	0.47 09/30/23
17. • Capital World Investors	2 MF-AGG	48,819,000	48,819	1.63 09/30/23
 Capital Research and Management Co 	3 MF-AGG	16,787,000	16,787	0.56 11/17/23
19. • Capital International Inc	2 MF-AGG	3,216,000	3,216	0.11 09/30/23
20. FMR LLC	3 ULT-AGG	66,068,175	66,068	2.20 11/16/23
21. • All Debt (3)				
23. CRL 4 03/15/31	ULT-AGG	28,103,029	28,103	5.62 09/30/23
24. CRL 3 ³ ₄ 03/15/29	ULT-AGG	25,775,919	25,776	5.16 11/16/23
25. CRL 4 ¹ / ₄ 05/01/28	ULT-AGG	12,189,226	12,189	2.44 11/16/23
25. Fidelity Management & Research Co	3 MF-AGG	65,391,175	65,391	2.18 11/16/23
26. Strategic Advisers Inc	2 MF-AGG	677,000	677	0.02 09/30/23
27. • BlackRock Inc	3 ULT-AGG	64,556,000	64,556	2.15 11/17/23
28. • All Debt (3)				
30. CRL 4 ¹ / ₄ 05/01/28	ULT-AGG	28,393,000	28,393	5.68 11/17/23
31. CRL 4 03/15/31	ULT-AGG	19,622,000	19,622	3.92 11/17/23
32. CRL 3 ³ / ₄ 03/15/29	ULT-AGG	16,541,000	16,541	3.31 11/17/23
	D 115 100	17 000 000	17,000	A 50 AA 147 100

Bond Holders





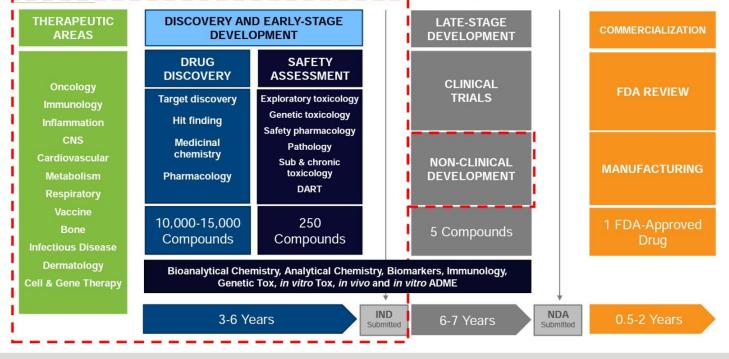


Terms	Description
Note	4% Bonds
lssuer	CHARLES RIVER LABORATORIES
Notional Amount	\$500,000,000
Issue Date	03/15/2021
Maturity	03/15/2031
Covenants	 Change of control Merger Restrictions
Events of Default	 Failure to make principal or interest payments within 30 days Deposit of sinking fund payment Default due to performance and bankruptcy

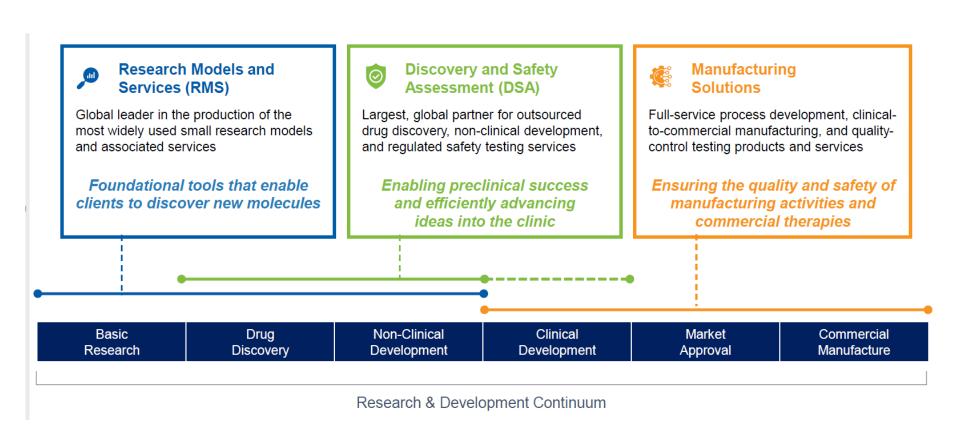
Discovery & Safety Assessment Process



DSA's Non-Clinical Focus in the Drug Development Process



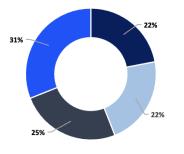




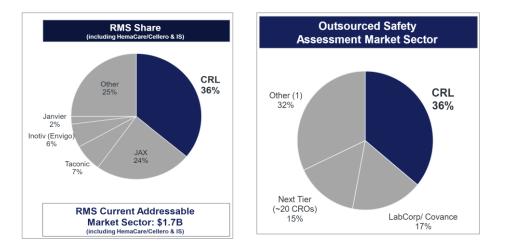


CRL was involved in 80% of the drugs approved by FDA from 2020-2022

Discovery Market Sector by Service Area



Pharmacology = ADME/PK = Chemistry = Biology

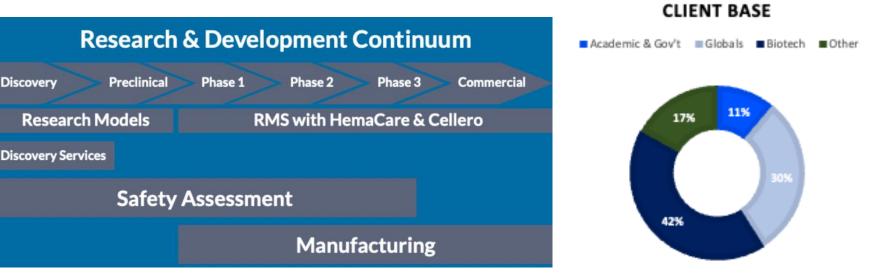


Resilient revenue growth

- CRL is involved in every phase of the drug discovery and development process leading to organic growth
- 60% of business comes from DSA, where CRL contracts last between 3-7 years
- Long contracts and footprint in all stages of development have led to resilient revenues



Segment Overview



- Research Model Services (RMS):
 - Provides non-human research models (animals) for pre-clinical testing
- Discovery & Safety Assessment (DSA):
 - Enables client base to outsource drug discovery and development activities
- Manufacturing (MFG):
 - Provides resources to support the manufacturing and production of drugs and therapies