As of December 31, 2016 Industry: Blood Diagnostics

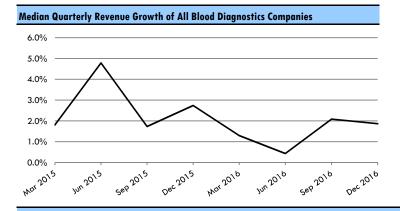


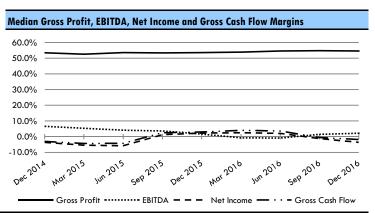
### **Industry Summary**

Cogent Valuation identified Blood Diagnostics publicly traded companies, IPOs, and recent M&A transactions within the Blood Diagnostics industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since December 31, 2015, the median 52-week share price return of the Blood Diagnostics industry was -2.8%. Between December 31, 2014 and December 31, 2016, the median EV/EBITDA multiple increased from 12.0 to 15.4. Furthermore, the median price-to-earnings multiple increased from 22.8 to 28.3 over the same period.

Comparable Public Company Key Statisti	cs										
Median 52-Week Return	-2.8% 5.1%	Median EV/Revenue Multiple				4.6x 15.4x		Multiple	28.3x 21.9x		
Median 3-Year CAGR Return  5.1% Median EV/EBITDA Multiple  15.4x Median EV/Gross CF Multiple  Comparable Public Company Market Price Returns (As of December 31, 2016)											
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Abaxis, Inc.	-5.2%	2.2%	-5.2%	-3.6%	9.7%	13.8%	-2.0%	42.0%	7.8%	34.1%	3.1%
BG Medicine, Inc.	-89.0%	-73.2%	-89.0%	-85.2%	-78.7%	-70.8%	-80.2%	-55.7%	-55.0%	-51.1%	N/A
DexCom, Inc.	-27.1%	-31.9%	-27.1%	4.1%	19.0%	45.0%	48.8%	55.5%	160.6%	46.0%	-31.8%
Escalon Medical Corp.	-90.1%	-84.3%	-90.1%	-74.5%	-62.4%	-36.3%	-34.2%	-18.3%	107.3%	-5.0%	-33.3%
Insulet Corporation	-0.3%	-8.0%	-0.3%	-9.6%	0.5%	14.9%	-17.9%	24.2%	74.8%	12.7%	21.5%
Masimo Corporation	62.4%	13.3%	62.4%	60.0%	32.1%	29.3%	57.6%	-9.9%	39.1%	12.4%	-35.7%
MGC Diagnostics Corporation	19.5%	12.7%	19.5%	11.0%	-14.6%	8.6%	3.1%	-49.4%	114.6%	13.0%	0.4%
Quest Diagnostics Incorporated	29.2%	8.6%	29.2%	17.1%	19.7%	9.6%	6.1%	25.3%	-8.1%	0.4%	7.6%
Median of Industry Public Companies	-2.8%	-2.9%	-2.8%	0.2%	5.1%	11.7%	0.6%	7.1%	57.0%	12.6%	0.4%

(Multiple year periods are calculated as the average annual return.)





Median Public Company Multiples of the Blood Diagnostics Industry											
Date:	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016		
EV/Revenues Multiple	2.5x	3.0x	3.4x	2.3x	2.2x	2.8x	3.3x	3.3x	4.6x		
EV/EBITDA Multiple	12.0x	16.9x	16.1x	14.0x	14.1x	13.8x	13.9x	14.8x	15.4x		
Price/Earnings Multiple	22.8x	23.9x	29.0x	21.8x	20.2x	19.7x	21.9x	26.1x	28.3x		
EV/Gross Cash Flows Multiple	33.7x	21.1x	25.4x	20.4x	19.3x	18.7x	20.1x	20.7x	21.9x		

This industry research is provided at no charge to Cogent Valuation's clients. Research or detailed information not covered in this report can be obtained for a fee.

Contact Steven Kam at 415-392-0888 for additional information or questions in connection with this research report. Copyright © 2017 Cogent Valuation. All Rights Reserved.

As of December 31, 2016 Industry: Blood Diagnostics

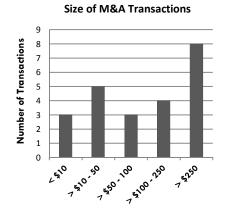


Industry Init	Industry Initial Public Offerings (dollars in millions, except share prices)											
Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	<u>Debt</u>	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows		
6/29/2016	ExpreS2ion Biotech Holding AB	\$0.70	3.1	\$2.1	N/A	N/A	N/A	N/A	N/A	N/A		
7/9/2015	Cellnovo Limited	\$11.73	3.0	\$34.8	\$10.5	\$11.5	\$0.2	(\$7.7)	(\$8.1)	(\$7.2)		
8/6/2014	T2 Biosystems, Inc.	\$11.00	5.2	\$57.2	\$25.8	\$4.6	\$0.3	(\$21.4)	(\$23.0)	(\$20.8)		
4/24/2014	Quotient Limited	\$8.00	5.0	\$40.0	\$26.4	\$15.0	\$18.5	(\$5.4)	(\$6.6)	(\$5.0)		
8/2/2012	Globus Medical, Inc.	\$12.00	8.3	\$100.0	\$354.8	\$0.0	\$347.9	\$121.4	\$63.9	\$138.8		
10/18/2011	ZELTIQ Aesthetics, Inc.	\$13.00	7.0	\$91.0	\$19.3	\$1.0	\$50.5	(\$5.1)	(\$6.4)	(\$4.4)		
2/3/2011	BG Medicine, Inc.	\$7.00	5.0	\$35.0	\$6.0	\$4.5	\$1.0	(\$15.4)	(\$18.1)	(\$14.9)		
2/2/2011	Tornier N.V.	\$19.00	8.8	\$166.3	\$499.2	\$133.8	\$223.4	\$13.2	(\$62.1)	\$28.6		
8/13/2010	Electromed, Inc.	\$4.00	1.7	\$6.8	\$13.4	\$3.8	\$14.2	\$2.3	\$1.0	\$2.6		
5/28/2010	GenMark Diagnostics, Inc.	\$6.00	4.6	\$27.6	\$16.1	\$0.0	\$1.2	(\$17.3)	(\$20.4)	(\$16.0)		
4/22/2010	Lianluo Smart Limited	\$8.00	1.5	\$12.0	\$17.8	\$1.5	\$12.4	\$3.6	\$2.7	\$3.9		
Median of A	II IPOs	nm	nm	\$57.2	\$26.1	\$4.6	\$16.4	(\$1.4)	(\$6.5)	(\$0.9)		

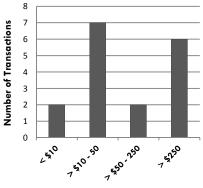
nm: not meaningful

#### Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

<u>Transaction Date</u>	<u>Target</u>	<u>Acquirer</u>	<b>Transaction Size</b>	% Bought	LTM Revenues	EV/Revenues
11/4/2016	Cepheid	Danaher Corporation	\$4,412.0	100%	\$564.2	7.2x
6/29/2016	Nanosphere, Inc.	Luminex Corporation	\$106.5	100%	\$23.0	4.0x
4/5/2016	Allenex AB (publ)	CareDx, Inc	\$38.4	78%	\$16.4	2.6x
3/31/2016	Affymetrix Inc.	Thermo Fisher Scientific	\$1,251.0	100%	\$359.8	3.1x
3/24/2016	Magellan Diagnostics, Inc.	Meridian Bioscience, Inc.	\$66.0	100%	\$16.0	4.1x
9/29/2015	Health Diagnostic Laboratory	True Health Diagnostics	\$37.1	100%	N/A	N/A
6/11/2015	Biosensors International	Hony Capital (Beijing)	\$50.0	100%	N/A	N/A
11/20/2014	LipoScience, Inc.	Laboratory Corp. of America	\$101.0	100%	\$45.5	1.3x
10/31/2014	Cell Marque Corporation	Sigma-Aldrich Corporation	\$170.0	100%	N/A	N/A
9/10/2013	Flowsense Medical	Baxter International	\$4.5	100%	\$0.1	N/A
9/6/2013	Gambro AB	Baxter International	\$4,013.8	100%	\$1,670.7	2.4x
2/6/2013	Epocal	Inverness Medical	\$241.5	100%	N/A	N/A
10/3/2012	Drew Scientific	ERBA Diagnostics	\$6.5	100%	\$13.0	0.5x
8/1/2012	Gen-Probe	Hologic	\$4,204.1	100%	\$586.6	6.6x
5/31/2012	SunTech Medical Group	Halma	\$57.0	100%	\$23.0	2.3x
5/22/2012	Navilyst Medical	AngioDynamics	\$374.5	100%	\$148.6	2.5x
4/2/2012	Accutome	Halma	\$25.0	100%	\$20.2	1.2x
1/3/2012	Verum Diagnostica	Roche Holding	\$13.3	100%	N/A	N/A
11/23/2011	Shanghai Yuanqi	SHMY Healthdigit Biochips	\$54.0	70%	\$0.1	N/A
11/8/2011	Axis-Shield	Alere	\$396.1	100%	\$164.7	2.3x
9/2/2011	Life Enhancement Technology	VasoHealthcare	\$3.3	100%	N/A	N/A
8/23/2011	Phadia	Thermo Fisher Scientific	\$3,512.8	100%	\$523.4	6.7x
6/29/2011	Beckman Coulter	Danaher	\$7,392.9	100%	\$3,663.4	1.9x
Median of the	23 M&A Transaction Target	s	\$101.0	100%	\$45.5	2.5x







#### Definitions of Financial Terms Used in this Quarterly Industry Update:

 ${\it Enterprise \ Value \ (EV): Market \ Value \ of \ Equity + Market \ Value \ of \ Debt - Cash}$ 

Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA): Profitability metric sometimes also referred to as operating profit or operating earnings.

Gross Cash Flows: Net Income + Depreciation and Amortization Expense

Latest Twelve Months (LTM): Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

As of December 31, 2016 Diagnostics Industry Aggregates



Median 52-Week Return	-1.9%	Median EV/Revenue Multiple			3.8x	M	edian Price	/Earnings /	Multiple	41.4x	
Median Year-to-Date Return	-1.9%	Median EV/EBITDA Multiple			16.0x	M	edian EV/C	Gross CF M	ultiple	23.9x	
Comparable Public Company Market Pri	ice Returns (As o	of December	31, 2016)								
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Abaxis, Inc.	-5.2%	2.2%	-5.2%	-3.6%	9.7%	13.8%	-2.0%	42.0%	7.8%	34.1%	3.1%
Accelerate Diagnostics, Inc.	-3.4%	-23.9%	-3.4%	4.0%	19.4%	76.5%	12.0%	57.3%	202.7%	233.1%	22.2%
AngioDynamics, Inc.	39.0%	-3.8%	39.0%	-5.8%	-0.6%	2.6%	-36.1%	10.8%	56.1%	-25.8%	-3.6%
BG Medicine, Inc.	-89.0%	-73.2%	-89.0%	-85.2%	-78.7%	-70.8%	-80.2%	-55.7%	-55.0%	-51.1%	N/A
Bioptix, Inc.	57.6%	26.7%	57.6%	-47.9%	-39.2%	-39.3%	-82.8%	-17.3%	-16.4%	-56.0%	-67.8%
Bio-Techne Corporation	14.3%	-6.1%	14.3%	5.5%	2.8%	8.5%	-2.6%	-2.4%	38.5%	0.1%	3.9%
Chembio Diagnostics, Inc.	27.6%	-8.1%	27.6%	31.9%	26.4%	15.1%	36.3%	16.0%	-28.8%	40.8%	-1.2%
CombiMatrix Corporation	-75.8%	-5.7%	-75.8%	-63.0%	-57.5%	-61.2%	-43.4%	-43.9%	-56.4%	-73.6%	-7.0%
DexCom, Inc.	-27.1%	-31.9%	-27.1%	4.1%	19.0%	45.0%	48.8%	55.5%	160.6%	46.0%	-31.8%
Digirad Corporation	-13.6%	-2.0%	-13.6%	7.1%	10.6%	20.6%	32.8%	17.8%	80.5%	4.6%	-6.7%
Enzo Biochem, Inc.	54.2%	36.3%	54.2%	25.0%	33.5%	25.4%	1.4%	52.1%	8.1%	20.5%	-57.6%
ERBA Diagnostics, Inc.	-82.7%	-52.0%	-82.7%	-72.5%	-55.5%	-11.4%	-56.2%	16.1%	206.7%	102.3%	-22.8%
Escalon Medical Corp.	-90.1%	-84.3%	-90.1%	-74.5%	-62.4%	-36.3%	-34.2%	-18.3%	107.3%	-5.0%	-33.3%
Exact Sciences Corporation	44.7%	-28.1%	44.7%	-30.2%	4.4%	10.5%	-66.4%	133.5%	11.0%	30.4%	35.8%
Forward Industries, Inc.	-15.5%	-16.1%	-15.5%	9.6%	-6.9%	-5.6%	42.3%	-32.9%	4.7%	-11.4%	-48.1%
GenMark Diagnostics, Inc.	57.7%	3.7%	57.7%	-5.2%	-2.7%	24.3%	-43.0%	2.4%	47.7%	118.4%	0.7%
Insulet Corporation	-0.3%	-8.0%	-0.3%	-9.6%	0.5%	14.9%	-17.9%	24.2%	74.8%	12.7%	21.5%
Luminex Corporation	-5.4%	-11.0%	-5.4%	3.8%	1.4%	-1.0%	14.0%	-3.3%	15.5%	-20.9%	16.1%
Masimo Corporation	62.4%	13.3%	62.4%	60.0%	32.1%	29.3%	57.6%	-9.9%	39.1%	12.4%	-35.7%
Meridian Bioscience, Inc.	-13.7%	-8.2%	-13.7%	3.7%	-12.6%	-1.2%	24.7%	-38.0%	31.0%	7.5%	-18.7%
Merit Medical Systems, Inc.	42.5%	9.1%	42.5%	23.7%	19.0%	14.6%	7.3%	10.1%	13.2%	3.9%	5.7%
Merrimack Pharmaceuticals, Inc.	-48.4%	-35.7%	-48.4%	-39.9%	-8.5%	N/A	-30.1%	112.0%	-12.5%	N/A	N/A
MGC Diagnostics Corporation	19.5%	12.7%	19.5%	11.0%	-14.6%	8.6%	3.1%	-49.4%	114.6%	13.0%	0.4%
Myriad Genetics, Inc.	-61.4%	-19.0%	-61.4%	-30.0%	-7.4%	-4.5%	26.7%	62.3%	-23.0%	30.1%	-8.3%
Navidea Biopharmaceuticals, Inc	-52.1%	-30.4%	-52.1%	-41.9%	-32.5%	-24.6%	-29.6%	-8.7%	-26.9%	8.0%	27.2%
Neogen Corporation	16.8%	18.0%	16.8%	15.4%	13.0%	26.4%	14.0%	8.5%	51.3%	47.9%	-25.3%
OraSure Technologies, Inc.	36.3%	10.2%	36.3%	-6.9%	11.8%	-0.7%	-36.5%	61.2%	-12.4%	-21.2%	58.4%
Quest Diagnostics Incorporated	29.2%	8.6%	29.2%	17.1%	19.7%	9.6%	6.1%	25.3%	-8.1%	0.4%	7.6%
Quidel Corporation	1.0%	-3.0%	1.0%	-13.9%	-11.5%	7.2%	-26.7%	-6.4%	65.5%	23.4%	4.7%
Surmodics, Inc.	25.3%	-15.6%	25.3%	7.2%	1.4%	11.6%	-8.3%	-9.4%	9.1%	52.5%	23.5%
T2 Biosystems, Inc.	-51.9%	-27.3%	-51.9%	-47.7%	N/A	N/A	-43.1%	N/A	N/A	N/A	N/A
TrovaGene, Inc.	-61.1%	-53.2%	-61.1%	-30.1%	-28.5%	-8.6%	25.6%	-25.1%	-17.2%	110.0%	5.8%
Veracyte, Inc.	7.5%	1.7%	7.5%	-10.5%	-18.9%	N/A	-25.5%	-33.4%	N/A	N/A	N/A
Vermillion, Inc.	-47.2%	-26.9%	-47.2%	-30.9%	-26.2%	-4.1%	-9.5%	-15.7%	78.8%	12.8%	-84.4%
Median of Industry Public Companies	-1.9%	-8.0%	-1.9%	-5.5%	-0.6%	8.5%	-5.4%	2.4%	14.4%	12.7%	-0.4%

(Multiple year periods are calculated as the average annual return.)

As of December 31, 2016
Diagnostics Industry Aggregates

11/1/2007

8/7/2007

5/14/2007

2/26/2007

**Median of All IPOs** 

Nanosphere, Inc.

Masimo Corporation

**Insulet Corporation** 

Rosetta Genomics Ltd.



										/	
Median Publ	ic Company Multiples of th	ne Diagnostics In	dustry Aggreç	gates							
Date:		12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/20	15	3/31/2016	6/30/2016	9/30/2016	12/31/201
EV/Revenu	ues Multiple	3.2x	3.1x	3.4x	2.5x	3.1x		2.6x	3.0x	3.7x	3.8x
EV/EBITDA	Multiple	13.7x	14.2x	14.0x	13.9x	14.8x		13.9x	13.4x	16.8x	16.0x
Price/Earn	ings Multiple	32.4x	35.0x	36.6x	31.8x	31.2x		36.1x	34.7x	39.3x	41.4x
EV/Gross (	Cash Flows Multiple	28.9x	34.3x	27.1x	24.1x	24.8x		21.5x	20.8x	23.6x	23.9x
Industry Init	tial Public Offerings - Diag	nostics Industry I	Aggregates (d	ollars in million	ıs, except share	prices)					
Offer Date	Company Name		Offer Price	Shares Offered	Amount Raised	Total Assets	<u>Debt</u>	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flow
11/10/2015	Advanced Accelerator Appli	cations S.A.	\$16.00	4.7	\$75.0	\$233.9	\$27.1	\$88.7	\$1.0	(\$17.3)	\$9.4
5/5/2015	HTG Molecular Diagnostics,	Inc.	\$14.00	3.6	\$50.0	\$8.7	\$10.5	\$3.3	(\$12.4)	(\$14.0)	(\$11.9)
5/4/2015	OpGen, Inc.		\$6.00	2.9	\$17.1	\$2.7	\$3.2	\$4.1	(\$5.0)	(\$5.7)	(\$4.5)
2/18/2015	Check-Cap Ltd.		\$6.00	2.0	\$12.0	\$3.3	\$0.0	\$0.0	(\$4.0)	(\$4.2)	(\$3.9)
8/6/2014	T2 Biosystems, Inc.		\$11.00	5.2	\$57.2	\$25.8	\$4.6	\$0.3	(\$21.4)	(\$23.0)	(\$20.8)
7/16/2014	Roka Bioscience, Inc.		\$12.00	5.0	\$60.0	\$56.3	\$9.7	\$2.7	(\$27.0)	(\$30.2)	(\$24.6)
6/17/2014	Signal Genetics, Inc.		\$10.00	0.9	\$8.5	\$3.5	\$27.2	\$4.3	(\$0.4)	(\$2.3)	(\$0.2)
4/24/2014	Quotient Limited		\$8.00	5.0	\$40.0	\$26.4	\$15.0	\$18.5	(\$5.4)	(\$6.6)	(\$5.0)
2/4/2014	Biocept, Inc.		\$10.00	1.9	\$19.0	\$1.1	\$5.9	\$0.1	(\$7.9)	(\$9.7)	(\$7.6)
10/30/2013	Veracyte, Inc.		\$13.00	5.0	\$65.0	\$27.2	\$4.8	\$17.1	(\$20.6)	(\$23.2)	(\$19.9)
4/4/2013	Cancer Genetics, Inc.		\$10.00	0.6	\$6.0	\$9.0	\$15.2	\$4.3	(\$7.3)	(\$6.7)	(\$6.9)
8/2/2012	Globus Medical, Inc.		\$12.00	8.3	\$100.0	\$354.8	\$0.0	\$347.9	\$121.4	\$63.9	\$138.8
3/28/2012	Merrimack Pharmaceuticals	, Inc.	\$7.00	14.3	\$100.1	\$85.3	\$0.0	\$34.2	(\$75.5)	(\$79.2)	(\$70.5)
10/18/2011	ZELTIQ Aesthetics, Inc.		\$13.00	7.0	\$91.0	\$19.3	\$1.0	\$50.5	(\$5.1)	(\$6.4)	(\$4.4)
2/3/2011	BG Medicine, Inc.		\$7.00	5.0	\$35.0	\$6.0	\$4.5	\$1.0	(\$15.4)	(\$18.1)	(\$14.9)
2/2/2011	Tornier N.V.		\$19.00	8.8	\$166.3	\$499.2	\$133.8	\$223.4	\$13.2	(\$62.1)	\$28.6
8/13/2010	Electromed, Inc.		\$4.00	1.7	\$6.8	\$13.4	\$3.8	\$14.2	\$2.3	\$1.0	\$2.6
5/28/2010	GenMark Diagnostics, Inc.		\$6.00	4.6	\$27.6	\$16.1	\$0.0	\$1.2	(\$17.3)	(\$20.4)	(\$16.0)
5/28/2010	GenMark Diagnostics, Inc.		\$6.00	4.6	\$27.6	\$16.1	\$0.0	\$1.2	(\$17.3)	(\$20.4)	(\$16.0)
4/22/2010	Lianluo Smart Limited		\$8.00	1.5	\$12.0	\$17.8	\$1.5	\$12.4	\$3.6	\$2.7	\$3.9
4/21/2010	DynaVox Inc.		\$15.00	9.4	\$140.6	\$128.4	\$79.2	\$105.2	\$28.1	\$13.5	\$30.7

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\$98.0

\$202.6

\$115.5

\$26.3

\$50.0

\$40.4

\$152.1

\$57.1

\$15.1

\$19.3

\$10.8

\$31.7

\$31.2

\$0.1

\$4.8

\$1.5

\$234.0

\$3.7

\$0.0

\$4.3

(\$24.9)

\$80.6

(\$32.2)

(\$7.4)

(\$7.3)

(\$25.7)

\$46.2

(\$36.0)

(\$7.3)

(\$9.7)

(\$23.5)

\$84.3

(\$29.8)

(\$7.3)

(\$6.9)

\$14.00

\$17.00

\$15.00

\$7.00

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6.1

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3.8

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