



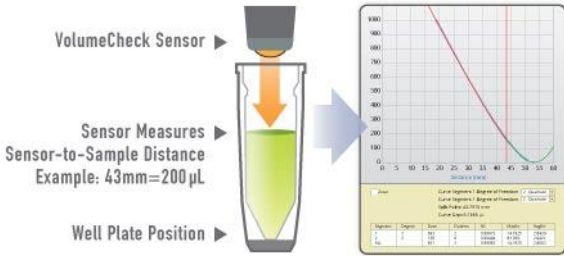
BioMicroLab Software

For VolumeCheck™

For All Models

- Generates an output file (.csv) of volume data on a well-by-well basis
- Graphically displays the well plate volumes in columns and rows
- User interface designed for quality control applications
- Project-based software for multiple types of applications and labware
- Select rows or columns to scan for efficient throughput
- Includes plate data calibration table utility
- Easy-to-use Windows based software
- ActiveX toolkit available for integration projects
- Prints or generates a PDF of plate reports

The VolumeCheck software calibration wizard assists the user in efficiently creating the reference curve, which is known volume vs. distance measure to the meniscus for a given sample. Many reference curves can be stored, making it easy to switch between sample types and different types of labware.



The VolumeCheck is compatible with a wide variety of common labware. System resolution can be optimized when plates are centrifuged, any dimensional variation in consumable is minimized, and reference curves most closely represent sample type scanned. The VolumeCheck returns a higher resolution with low volume plates vs. higher volume plates (PCR plates vs. 2.2mL deep well plates).

VolumeCheck Software

File Settings Tools Help

BioMicroLab VolumeCheck V2.00

Load Table [Real 384.caf] [Unload]

Well	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A	0.4	1.1	1.7	2.1	2.5	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.3	5.6	5.9	6.2	6.5	6.8	7.1	7.4	7.7	8.0	8.3
B	1.0	1.3	1.6	1.8	2.1	2.3	2.6	2.8	3.1	3.3	3.6	3.8	4.1	4.3	4.6	4.8	5.1	5.3	5.6	5.8	6.1	6.3	6.6	6.8
C	1.3	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2
D	1.5	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
E	1.6	1.9	2.2	2.4	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.5
F	1.8	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4
G	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
H	1.8	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4
I	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
J	1.8	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4
K	1.7	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
L	1.8	2.1	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4

Example of Output File

File Name = C:\Users\VC Output\New folder\4000.CSV

Rack Identifier = 4000

Calibration Curve = PCR Plate 9.23.15.caf

RACKID	TUBE	SAMPLES	STATUS	VOLMED	VOLAVG	VOLMIN	VOLMAX	VOLSTDEV
4	4000 A01	3	1	11.4719	11.4658	11.4537	11.4719	0.0086
7	4000 B01	3	1	11.545	11.545	11.545	11.545	0
8	4000 C01	3	1	9.5997	9.5997	9.5997	9.5997	0
9	4000 D01	3	1	11.2801	11.2801	11.2801	11.2801	0
10	4000 E01	3	1	9.6179	9.621	9.6179	9.6271	0.0043
11	4000 F01	3	1	11.3258	11.3258	11.3258	11.3258	0
12	4000 G01	3	1	9.3622	9.3714	9.2983	9.4536	0.0637
13	4000 H01	3	1	10.3303	10.3303	10.3303	10.3303	0
14	4000 A02	3	1	24.2125	24.2125	24.2125	24.2125	0
15	4000 B02	3	1	24.6691	24.6691	24.6691	24.6691	0
16	4000 C02	3	1	24.249	24.249	24.249	24.249	0
17	4000 D02	3	1	24.6052	24.6113	24.6052	24.6234	0.0086
18	4000 E02	3	1	22.9795	22.9795	22.9795	22.9795	0
19	4000 F02	3	1	23.3992	23.3387	23.1937	23.5183	0.1335
20	4000 G02	3	1	23.1713	23.1622	23.1348	23.1804	0.0197
21	4000 H02	3	1	23.4179	23.4179	23.4179	23.4179	0

Rack Calibration

Labware Information Calibration Table Larger Curve

Real 384.caf

TABLE SIZE: 209 VOLUME DATA: 208

Plate Map

Tubes to scan: Plate Map

Volume to scan: 0 µL

OPEN PLATEMAP SAVE PLATEMAP CLEAR PLATEMAP

	1	2	3	4	5	6	7	8	9	10	11	12
A	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
B	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
C	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
D	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
E	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
F	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
G	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
H	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
I	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
J	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
K	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0
L	0.0	5.0	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	100.0

Volume (µL)

Distance (mm)

Curve Segment 1 Degree of Freedom: 3 - Cubic

Curve Segment 2 Degree of Freedom: 1 - Linear

Split Point: 29.2240 mm

Curve Gap: 0.0000 µL

Segment	Degree	Data	Outliers	R2	MaxE	AvgE
1	3	208	0	0.99551	11.8871	1.7116
2	1	0	0	0.00000	0.0000	0.00000
ALL		208	0	0.99551	11.8871	1.7116

CREATE OPEN SAVE EXPORT PRINT START

NEW TABLE TABLE TABLE TABLE (CSV) GRAPH SCANNING

OLE Integration

BioMicroLab instruments have been integrated with many manufacturers' automation systems. A current list of manufacturers with drivers for BioMicroLab instruments is available upon request or found on our website.