

BOND RX

FULLY AUTOMATED IHC, ISH & EMERGING TESTS

UNLOCK THE POTENTIAL



Accelerate Your Journey
Imagine The Possibilities

Leica

BIO SYSTEMS

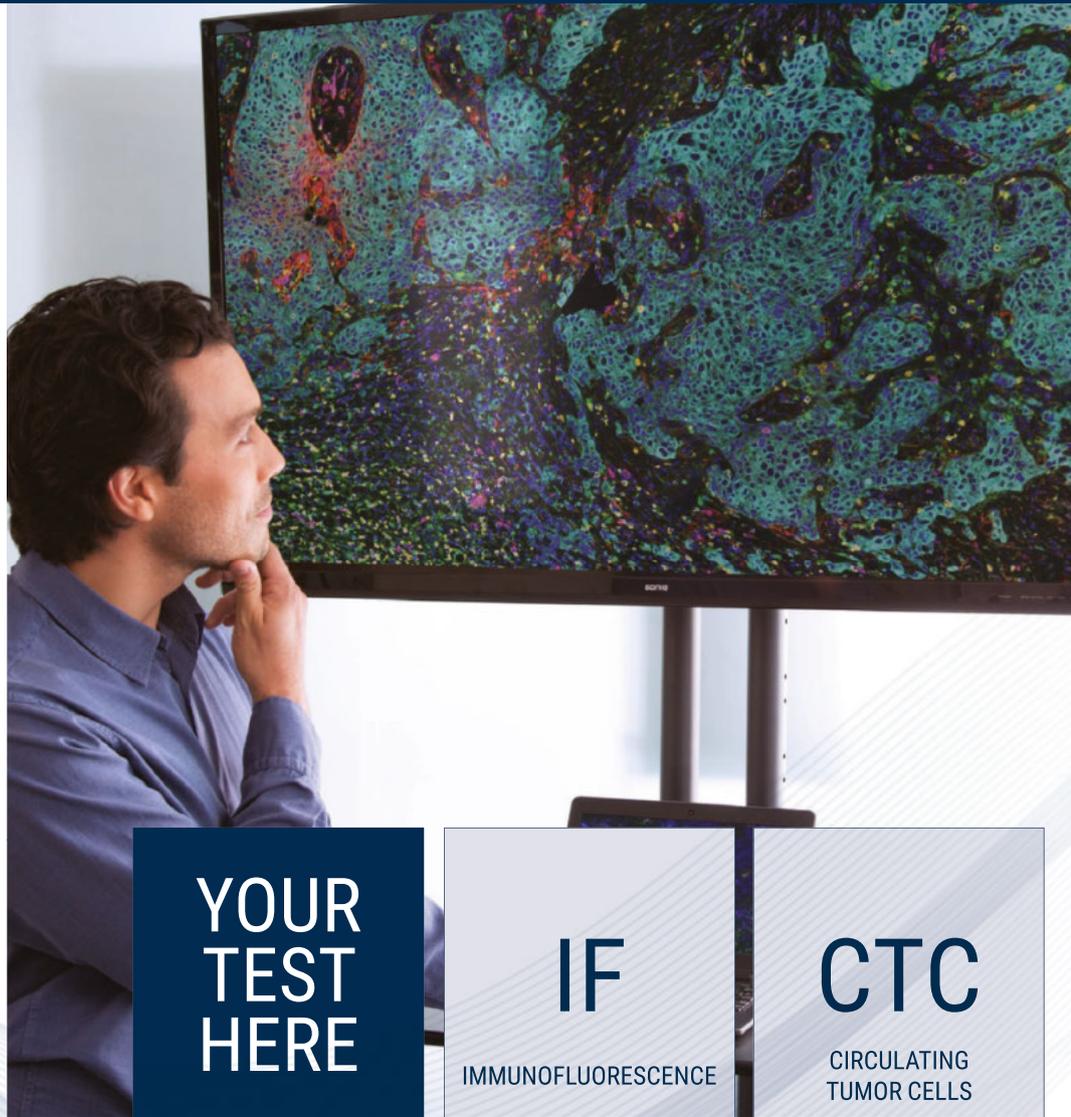
RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

EXPLORE YOUR IDEAS

PUSH THE BOUNDARIES OF WHAT IS POSSIBLE

BOND RX stainer is an ever evolving platform enabling researchers to break the mold and create the next generation test.

Designed to provide superior quality and flexibility to support the design of your ideal product.



YOUR TEST HERE

IF

IMMUNOFLUORESCENCE

CTC

CIRCULATING TUMOR CELLS

IHC

IMMUNOHISTOCHEMISTRY

TSA

TYRAMIDE SIGNAL AMPLIFICATION

FISH

FLUORESCENCE IN SITU HYBRIDIZATION

ISH

IN SITU HYBRIDIZATION

LNA

LOCKED NUCLEIC ACID

CISH

CHROMOGENIC IN SITU HYBRIDIZATION

TUNEL

TERMINAL DEOXYNUCLEOTIDYL TRANSFERASE DUTP NICK END LABELING ASSAY

miRNA

microRNA

bDNA

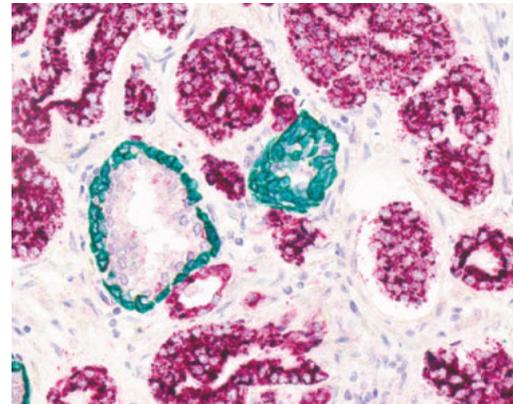
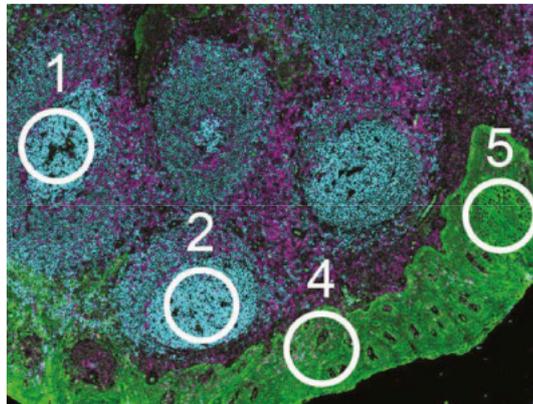
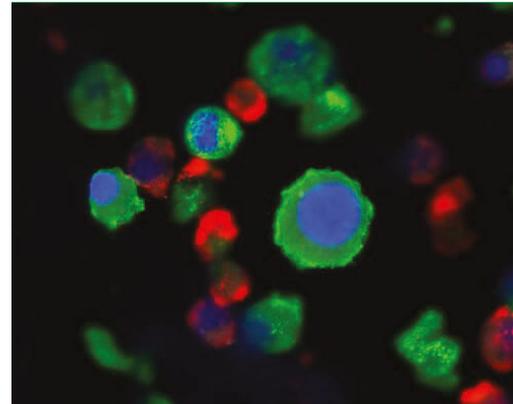
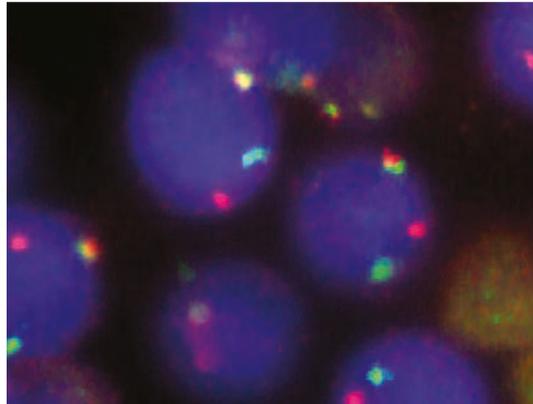
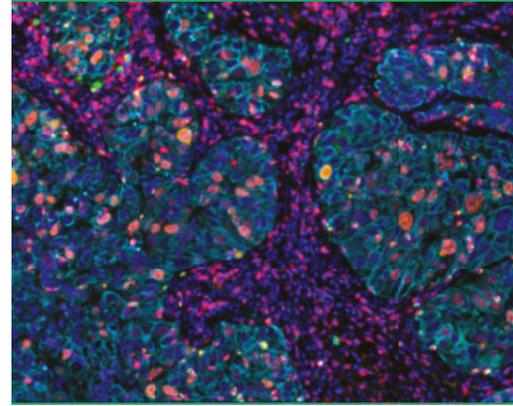
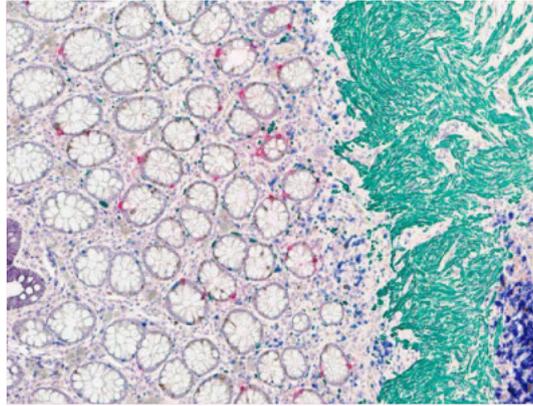
BRANCHED DNA ASSAYS

MULTI-PLEX

UNLOCK CELLULAR SECRETS

Use Multiplexing on BOND RX to

- » Do more with less sample
- » Discover spacial relationships
- » Determine cellular phenotypes



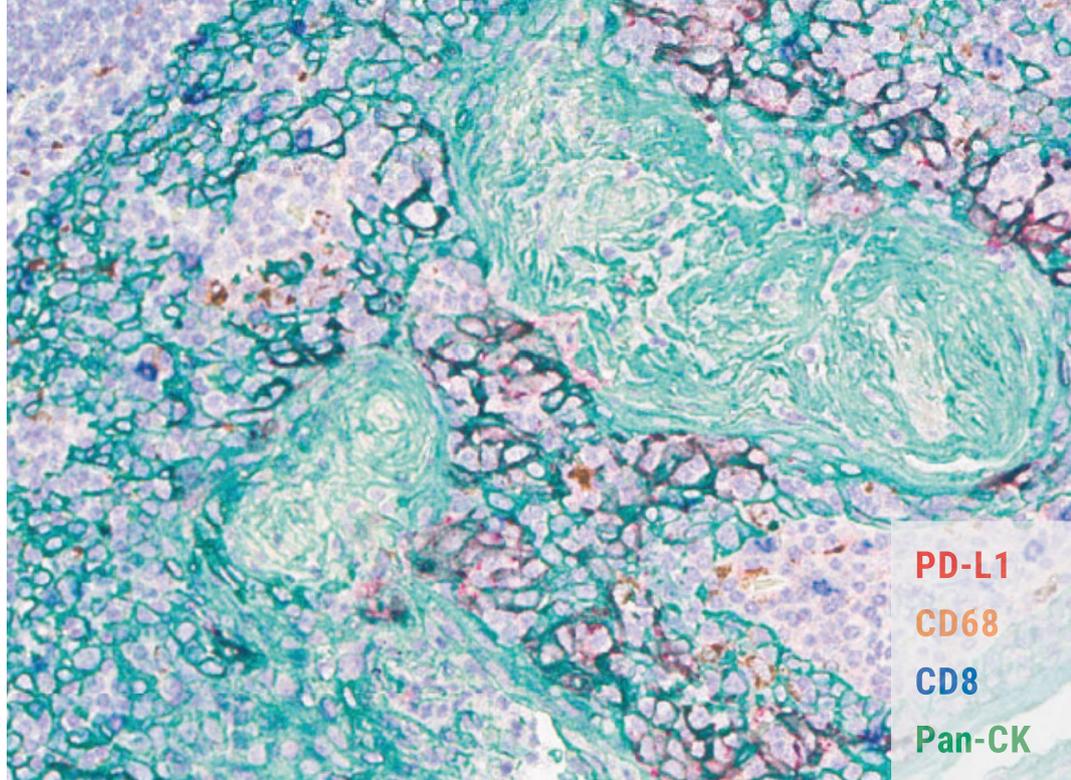
ACCESS THE LATEST ADVANCES

Leica Biosystems partners with leading Open Innovation partners to provide you with flexible solutions for your research from

- » DNA to RNA to protein
- » FFPE and CTCs
- » Chromogenic, Fluorescent and Sequencing

BUILD THE NEXT PANEL

- » Use BOND plug-and-play reagents or optimize your own
- » Take advantage of validated RTU antibodies and probes
- » Access the Novocastra antibody range across 14 pathology menus
- » Discover a range of advanced performance Kreatech FISH probes with REPEAT-FREE technology



NOVOCASTRA PRIMARY ANTIBODIES



CAPTURE THE BEAUTY AND THE DETAIL

Don't let great stains be forgotten or critical information be overlooked. Let Leica Biosystems' high-performance Aperio AT2, Aperio GT 450 and Aperio VERSA scanners capture your multiplex stains to enhance your analysis and let you share your discoveries with the world.



TAILOR TO YOUR TARGET

The BOND RX platform provides researchers with the ability to design their ideal protocol. With customization options across all protocol editing segments, the BOND RX research software enables greater flexibility when optimizing conditions for a variety of test types.



1 PRE-STAINING PREPARATION CUSTOMIZATION

- » Customize your dewax options

2 PRE-STAINING CUSTOMIZATION

- » Probe application/ removal
- » Change incubation time and temperature

3 STAINING CUSTOMIZATION

- » Use your preferred markers
- » Create your own detection systems
- » Select your dispense type
- » Change incubation time and temperature

4 MULTIPLEXING

- » Stain chromogenically or fluorescently
- » Use IHC & ISH in any order
- » Stain between 2-6 markers per slide
- » Let the BOND RX stainer mix up to 6 different chromogens
- » Create your own staining protocols
- » Incorporate multiple rounds of retrieval to support reagent stripping

PRE-STAINING PREPARATION CUSTOMIZATION

Process: IHC ISH

Marker: DNA Positive Control Probe

Protocols

Staining: RX Customized ISH

Preparation: RX Extended Dewax

HIER: *HIER 5 min with ER1

Enzyme: *Enzyme 1 for 15 min

Probe Application: *DEFAULT*

Denaturation: *-----*

Hybridization: *ISH Hybridization (2hr)

Probe Removal: *DEFAULT*

*ISH Probe Removal 1

*ISH Probe Removal LH

Add slide

PRE-STAINING (ANTIGEN RETRIEVAL) CUSTOMIZATION

BOND RX™ BOND RX Import protocol Protocol type: ISH detection

Preferred detection system: Bond Polymer Refine Detection

Step #	Wash	Reagent	Supplier	Ambient	Temperature	Inc. (min)	Dispense type
1		*Peroxide Stock	Leica Microsystems	✓		5:00	Open
5		*Open 1	User		50	7:30	Open
6		*Anti Fluorescein Antibody	Leica Microsystems	✓	55	15:00	Selected vol
10		*Post Primary	Leica Microsystems	✓		8:00	Open
14		*Polymer	Leica Microsystems	✓		8:00	Intermediate
18		*Mixed DAB Refine	Leica Microsystems	✓		8:00	150 µL
19		*Mixed DAB Refine	Leica Microsystems	✓		10:00	150 µL
23		*hematoxylin	Leica Microsystems	✓		5:00	150 µL

Show wash steps Insert wash | Insert reagent | Delete step

Save Cancel

MULTIPLEXING

Staining mode: Sequential multiplex Routine Stains: 4

First Second Third Final

Process: IHC ISH

Marker: *Programmed Death Ligand 1 (73-10)

Protocols

Staining: *IHC Protocol S

Preparation: *Dewax

HIER: *HIER 20 min with ER1

Enzyme: *-----*

ACCELERATE YOUR TEST PROGRAM

STAIN YOUR WAY

Build your own detection system and choose your own chromogens, fluoroflores, markers and probes. The open and flexible BOND RX stainer lets you design your own test.



BUILD FROM A BASE OF QUALITY

BOND HRP and AP enzymatic detection systems support both IHC and ISH. Supplement the Red and Brown detection with plug-and-play Blue and Green chromogens.

CONSISTENCY

PROTECT WHAT'S MOST IMPORTANT

For researchers, retaining tissue integrity and morphology is crucial. BOND's unique Covertile system provides total tissue care – consistently.

GENTLE REAGENT APPLICATION

Supporting excellent tissue retention and morphological preservation.



MAXIMIZE YOUR TIME

SPEED

MORE OPPORTUNITIES GET TO YOUR END POINT FASTER

The BOND RX stainer's efficient and organized 3 tray system coupled with simultaneous, optimized, protocol step processing, allows the consistent delivery of 30 slides (IHC) in 2.5 hours.



FLEXIBILITY

LIKE THREE STAINERS IN ONE

Each tray can load a different type of test; IHC, ISH or multiplex.



EFFICIENCY

REDUCING THE BARRIERS TO YOUR DISCOVERY



FLEXIBLE TEST MANAGEMENT

Antibodies, probes and detection systems can be accessed at any time.



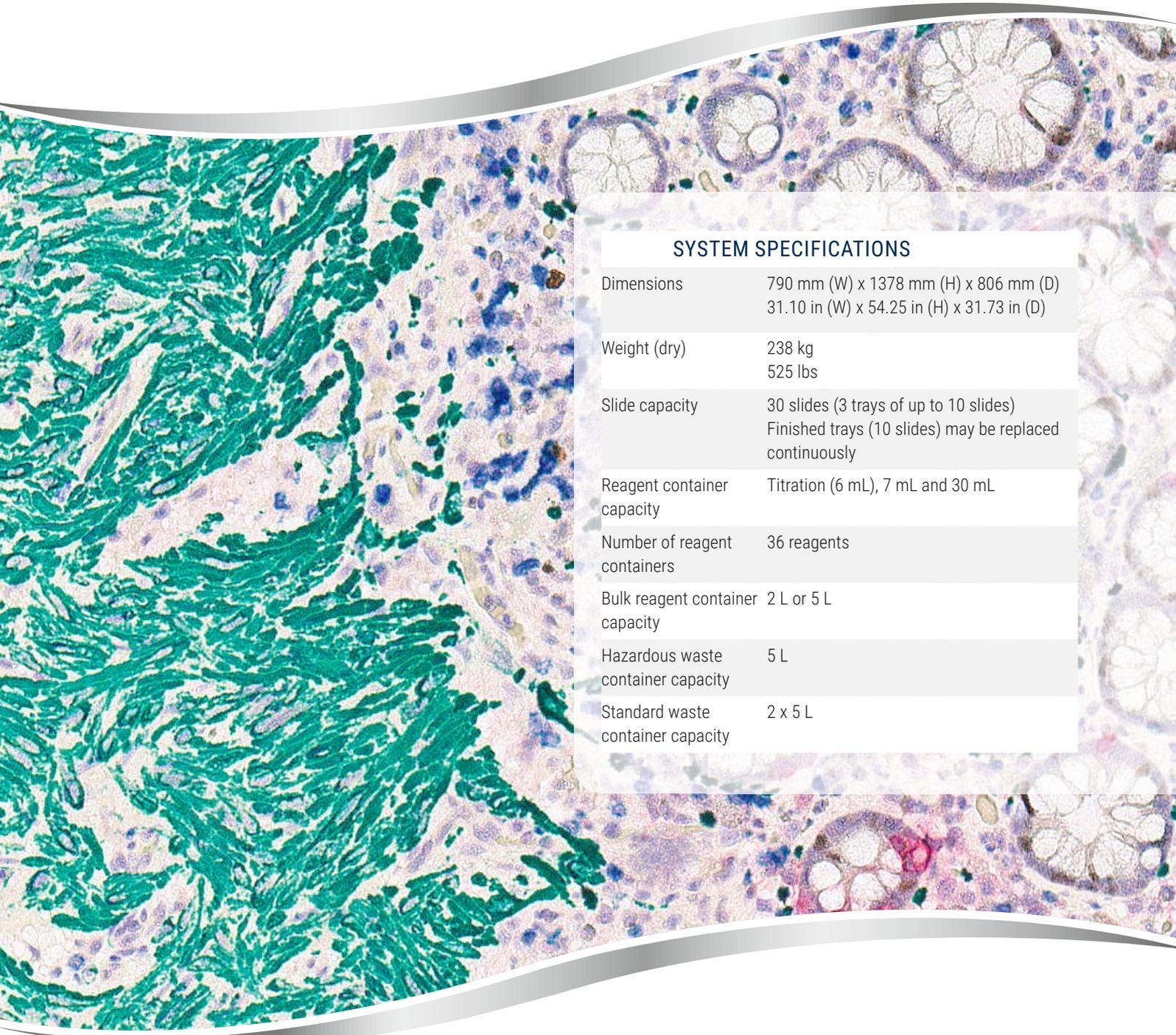
RELIEVING THE STRAIN

- » Minimal maintenance
- » Fill bulk reagents during runs
- » Low waste volumes



YOUR NEXT STEP ILLUMINATED

Ascertain bulk reagent levels and status changes at a glance with the BOND RX instruments unique active lighting system.



SYSTEM SPECIFICATIONS

Dimensions	790 mm (W) x 1378 mm (H) x 806 mm (D) 31.10 in (W) x 54.25 in (H) x 31.73 in (D)
Weight (dry)	238 kg 525 lbs
Slide capacity	30 slides (3 trays of up to 10 slides) Finished trays (10 slides) may be replaced continuously
Reagent container capacity	Titration (6 mL), 7 mL and 30 mL
Number of reagent containers	36 reagents
Bulk reagent container capacity	2 L or 5 L
Hazardous waste container capacity	5 L
Standard waste container capacity	2 x 5 L

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