

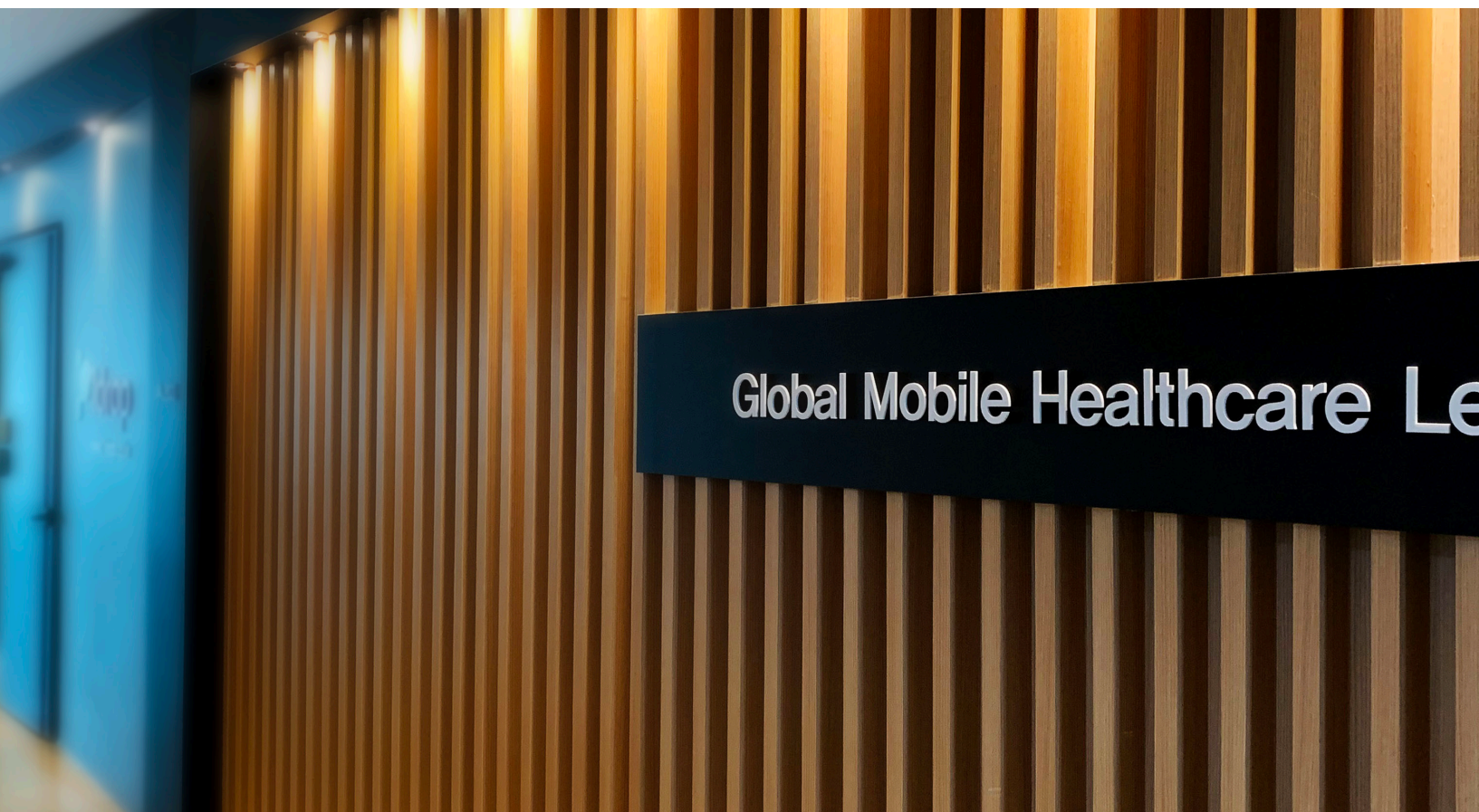


Global Mobile
Healthcare Leader

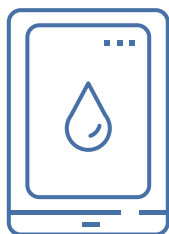
Global Mobile Healthcare Leader through Innovative Technology

Here at 1drop Inc., we aim to provide more people with a healthier life through our innovative mobile solutions for the prevention of disease, management of healthcare, and improvement of life.

We are on the path to becoming a leader in the global mobile healthcare market, using our speed-management system based on frugal innovation via a lean start-up philosophy to satisfy all of our customers, shareholders, employees alike.



Clinical Chemistry



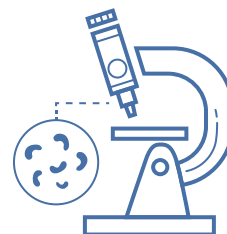
The user can easily check multiple biomarkers with a smartphone.

Molecular Diagnostics



Pre-existing PCR equipment can be used to measure the single molecule.

Immunoassay



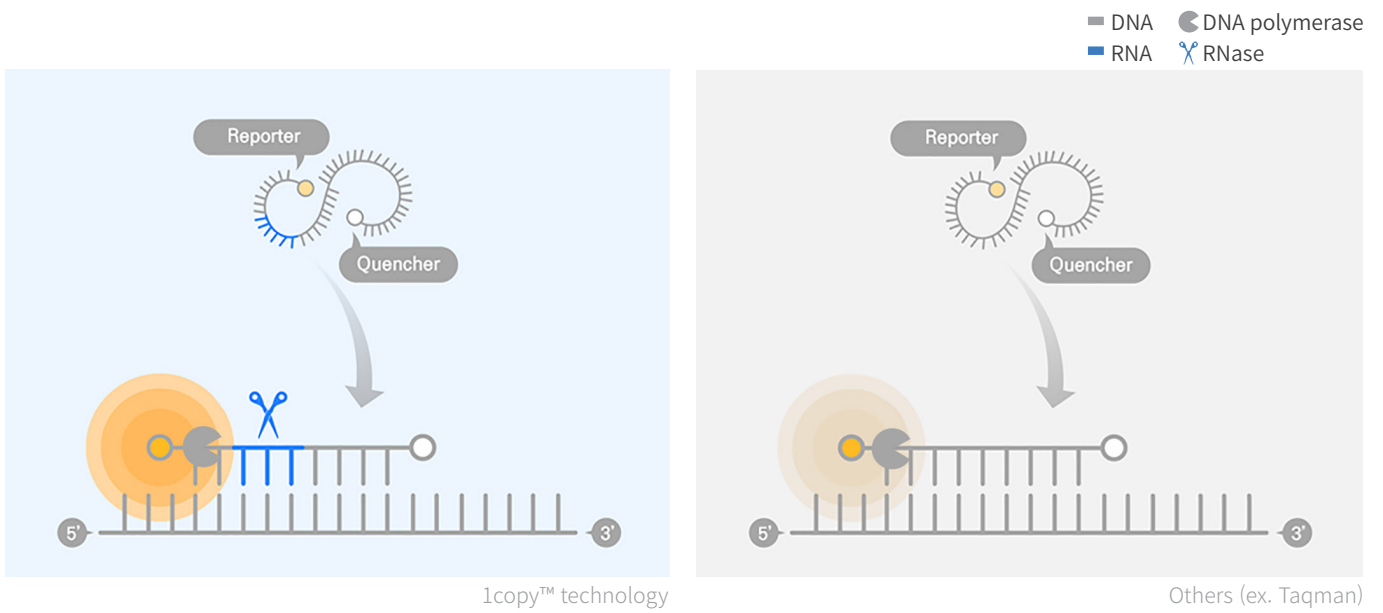
High-accuracy machine-learning based algorithms with lateral flow sensors help detect biomarkers and analyze them quantitatively.

1copy™ Molecular Diagnosis

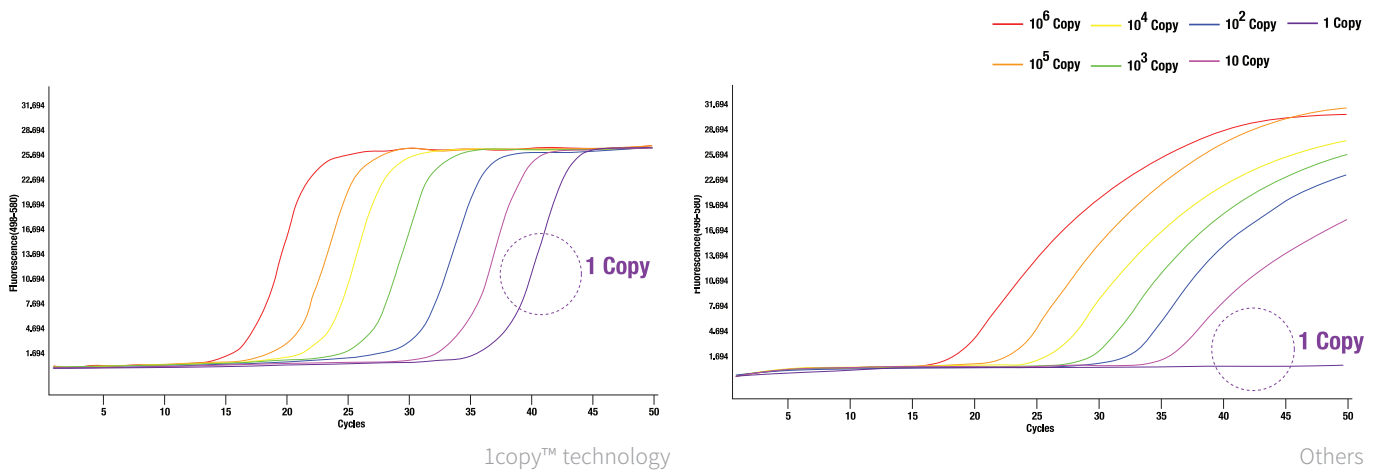
DNA-RNA Hybrid Probe & Thermo-stable RNase 1copy™ technology

Highly Sensitive & Consistent

1copy™'s DNA-RNA hybrid probe allows for a high probe degradation efficiency and ultimately higher fluorescence intensity, upon the presence of thermo-stable RNase in qRT-PCR.



1copy™ promises more sensitive and consistent results than transitional qRT-PCR. Through this technology, we can detect DNA and RNA stably at the single molecule level.

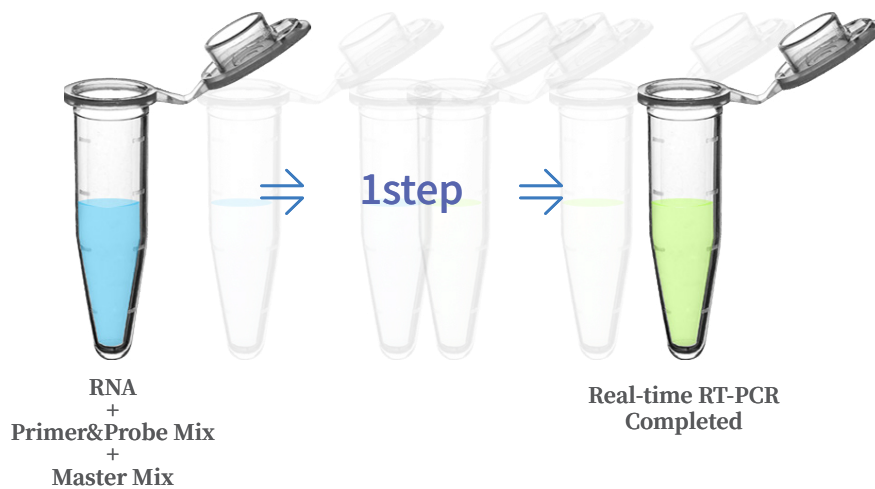


Hot start RNase 1 step real-time RT-PCR

Fast&Convenient

1copy™ provides a simple workflow for measuring multiple target gene in 1 step to save your time and money.

	1copy™ (1 step)	Competitor (2 steps)
Turn-around Time	2hr 25min	3hr 30min
Hands-on time	20min	1hr



Expandable

1copy™ technology can be applied to a variety of molecular diagnosis.

CE ● MFDS ●

	2019							
	5	6	7	8	9	10	11	12
CML : BCR-ABL	●				●			
AML : PML-RARA							●	●

*6 AML bio-markers : RUNX1-RUNX1T1, CBFβ-MYH11, ETV6-RUNX1, NPM1, WT1, BAALC

*Liquid Biopsy solution : CTC, ctDNA, cfDNA, etc

*Mutation solution : JAK2 (V617K), BRAF (4ea), EGFR (44ea)



1copy™ BCR-ABL qPCR Kit

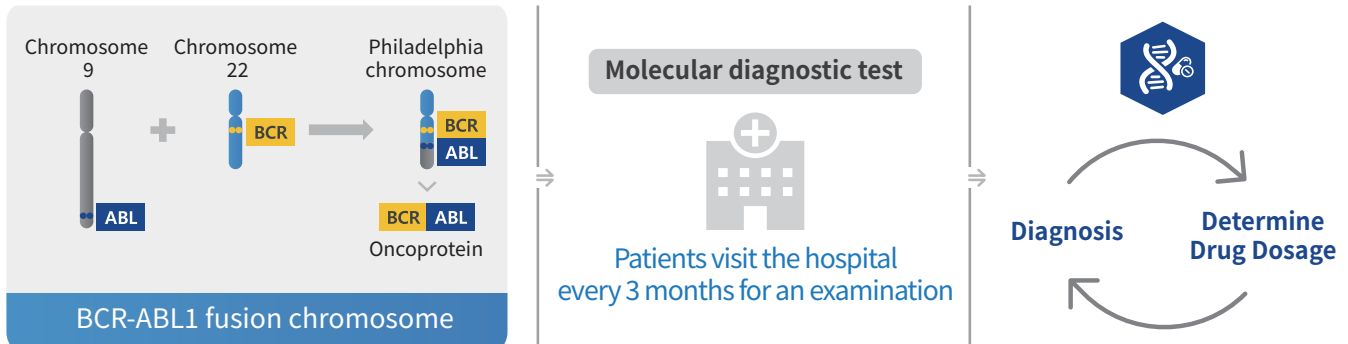
CML companion diagnosis process

BCR-ABL qPCR Kit?

BCR-ABL qPCR kit is a powerful measuring system for the quantitation of BCR-ABL1 fusion mRNA in total RNA from whole blood of diagnosed chronic myeloid leukemia (CML).

And the results are reported in International Scale (%IS) units, which standardizes reporting of the molecular response.

Quantitative results tested in every three months can help monitor the patients being treated for CML.

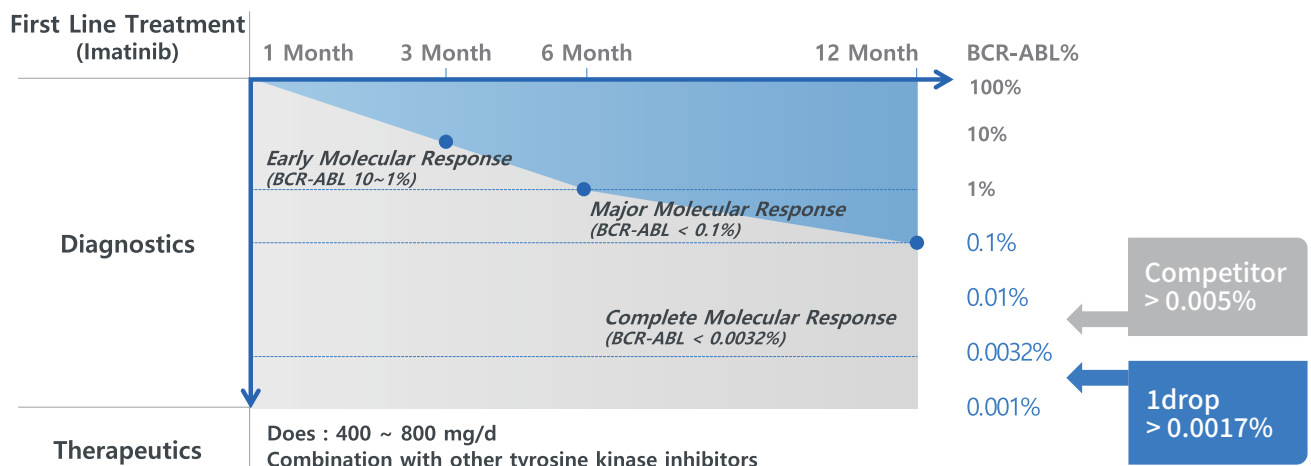


Single molecule detection

1copy™'s LOD of single-molecular RNA detection level helps to make accurate diagnosis.


1copy™ promise a highly sensitive performance to assess Major Molecular Response(MMR) and Complete Molecular Response(CMR).

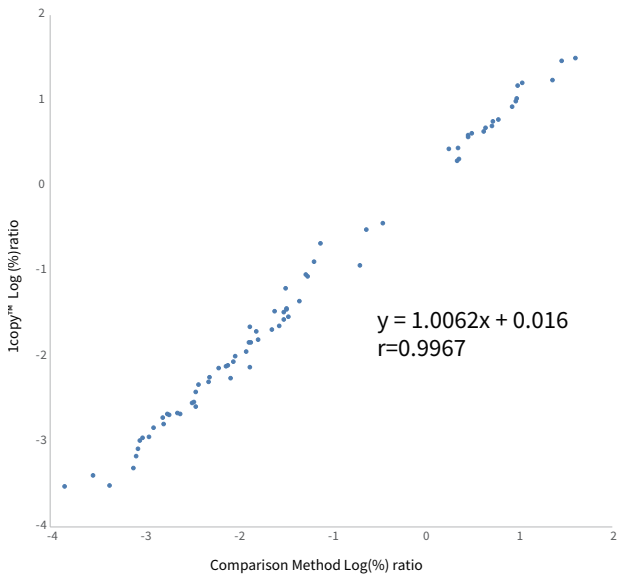
	pg	1copy™	Competitor	
		1copy	A	B
Determination of LOD with K562 RNA serial dilution test	100	○ (100%)	○ (100%)	○ (100%)
	50	○ (100%)	○ (100%)	○ (100%)
	20	○ (100%)	X	X
	10	○ (100%)	X	X
	4	○ (94%)	X	X
	2	○ (88%)	X	X
	0.8	○ (56%)	X	X
	0.2	△ (13%)	X	X
	0(NTC)	X	X	X
Character		1step qRT PCR kit	2 step real-time RT-PCR kit	Only for PCR (RT reaction is not included)



Baccarani M, Soverini S
Molecular response in CML: where is the bar?
Blood. 2014 Jul 24;124(4):469-71

Specification

Specification	
Steps	1 step
LOD	4pg (~8 copies, >95% CI) MR 4.77 (MR value)
Target	4 types of fusion mRNA (b3a2, b2a2, e1a2, e19a2)
Turn-around time	2 hours 25 minutes
Contents	<ul style="list-style-type: none"> ● Master Mix 1ea ● Primer Probe Mix 1ea ● Standard(ABL) 3ea ● Standard(BCR-ABL) 4ea ● Control 2ea ● DEPC DW 1ea □ User Manual 

Clinical evaluation*	
Icopy™ BCR-ABL qPCR kit (graph)	 <p>$y = 1.0062x + 0.016$ $r = 0.9967$</p>
Clinical Study Center	Samsung Medical Center, Republic of Korea
Number of Study Subjects	73 patients with chronic myeloid leukemia
Comparison Product	CE-certified products (competitor A)
Clinical result (Correlation)	$r = 0.9967$ ($y = 1.0062x + 0.016$)

*Park KJ, Woo YM, Kim K, Lee ST, Ki CS, Kim HJ, Kim SH, Kim JW
Clinical application of catalytically cleavable fluorescence probe technology for multiplexing quantification of BCR-ABL1 fusion transcripts. Clin Chim Acta. 2014 Jan 20;428:72-6.



1drop Inc.
A-203, Keumkang Penterium IT Tower, 215, Galmachi-ro,
Jungwon-gu, Seongnam-si, Gyeonggi-do, 13217, Korea
Tel +82 31 747 0109 Fax +82 70 4275 1248
E-mail cs@1drop.co.kr
www.1drop.co.kr