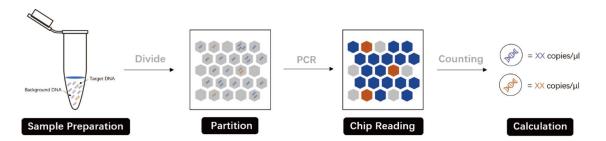


AccuONE-150 dPCR



Digital PCR Principle



The strategy of digital PCR - "divide and rule". A standard PCR reaction is allocated to a large number of micro reactors, and each reactor contains or does not contain one or more copies of the target molecule (DNA template) to achieve "single molecule template PCR amplification". After amplification, the number of positive wells is "counted" by the number of positive reactors, and then the number of positive copies is calculated according to Poisson's formula.

Technical Advantages



Direct

Interpretation by endpoint method, no standard curve required



Sensitive

Single copy detection, suitable for low concentration samples



Stable

Not susceptible to inhibitory factors & amplification efficiency

Workflow



1. System preparation



2. Micro-unit generation



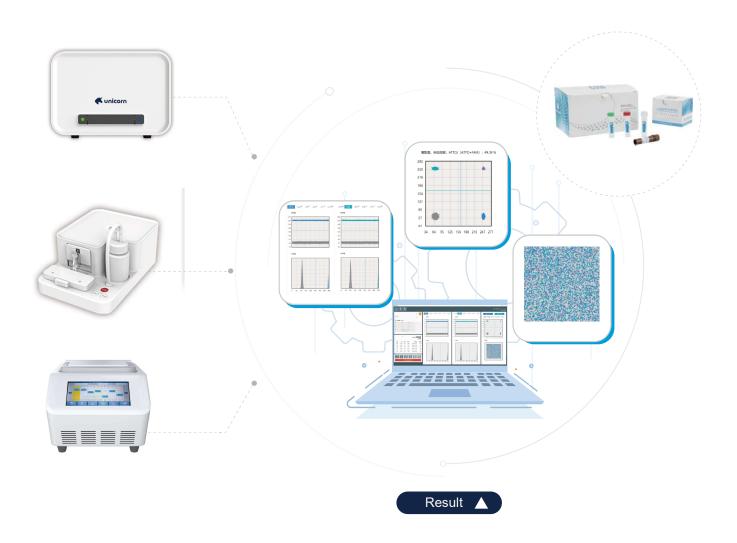
3. PCR amplification



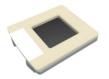
4. Chip read & analyze

Whole process < 2.5h

AccuONE-150 dPCR



Consumable & Reagent



Biochip

High-precision nano-scale chips, optional specifications, suitable for various application

Single throughput, (1 test)

▼ dPCR Master Mix



DNA and RNA one-step reaction system, with high specificity and efficiency

DigitalAmp PCR Master Mix(10x)
One-step RT-dPCR Mix(5x)
DigitalAmp PCR Master Mix(SYBR
Green)

▼ Seal Oil



Inert sealing liquid, effectively avoid amplification evaporation and prevent contamination

50ml (100 test)

Product Features



Micro-cavity chip

MEMS process processing, micro-nano chip processing, uniform chamber volume.



Automated preparation

One-key preparation of microsystems, no need for manual pipetting, avoiding errors caused by different personnel operations.



6 color fluorescence

The biochip reader is equipped with a 6-color fluorescence detection system, which can realize 6 multiplex detection in a single sample, saving samples and significantly improving detection efficiency.



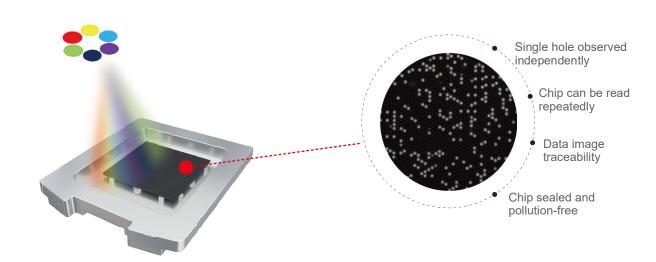
Various options

Chips with four unit numbers of 15k, 20k, 28k, and 50k are provided, Probe method, dye method, and one-step method dPCR Master Mix.



Open system

This system is compatible with a variety of mainstream brand reagents (Thermo, Roche, Qiagen, Takara, Transgene, Yeasen, etc.), users only need to make simple adjustments to the above reagent systems to quickly achieve compatibility



Application

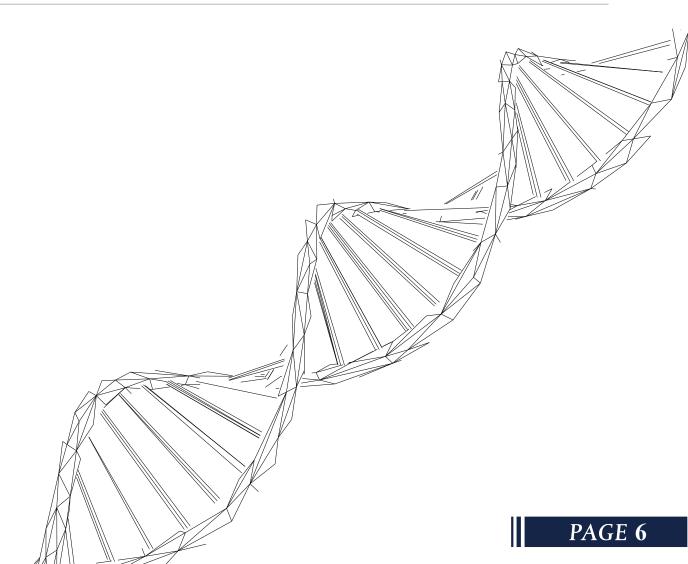


Application Kits

Area	Indication	Product name	Target	Sample type	
Tumor	NSCLC	EGFR Gene mutation	L858R T790M 19d 20i	Tissue/plasma	
	Colorectal cancer	KRAS Gene mutation	G12C		
		BRAF Gene mutation	V600E		
	Breast cancer	Pik3Ca Gene mutation	E542K	Tissue/plasma	
			E545K		
			1047R		
		Her2 Gene test	Her2		
	Leukaemia	BCR-ABL Fusion gene	BCR-ABL(-P210)	Bone marrow peripheral blood	
	Alcohol metabolism	ALDH2 Gene mutation	ALDH2	Oral swab	
	Tuberculosis	TB drug resistance	four drug resistance genes	Sputum, irrigation fluid	
		TB typing	Typing	Sputum	
Pathogen	Bacteria	Multiplex test	Listeria/Salmonella/ Escherichia coli/ Staphylococcus aureus	Plasma/body fluid/feces	
		Multiplex test	Staphylococcus aureus/ Staphylococcus epidermidis/ Legionella		
1 attrogett	HBV	HBV test	HBV		
	Infection	Mycoplasma, Chlamydia	Mycoplasma, Chlamydia		
	Infection	EB virus test	EB		
	Infection	CMV test	CMV		
	Respiratory	Flue test	Cov-19,Flu A,Flu B		
	Leukaemia	HTLV-1 test	HTLV-1		
	Clostridium difficile	Clostridium difficile test	A/B/GDH		
Drug resistance	Drug resistance testing needs	mmecA-Methicillin	Staphylococcus	Alveolar lavage fluid,plasma	
		KPC-carbapenems	Enterobacteriaceae		
		Rifampicin	Mycobacterium tuberculosis		
		VanA/B-vancomycin	Staphylococcus		

Specification

Model	AccuONE-150
Chip	Single-Chip (15K/20K/28K/50K)
Linear range	Five orders of magnitude
Reaction volume	15~40µl
Sample effective utilization rate	>95%
Sample preparation throughput	1pc
Amplification throughput	12pcs/15pcs
Detection throughput	12pcs/15pcs
Detection time	2 min/pc
Detection channel	Atto425,FAM,HEX,ROX,Cy5,Cy5.5
Type of kits	Probe/Dye
Light source	6 high engery LED
Detector	High resolution CMOS sensor



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