

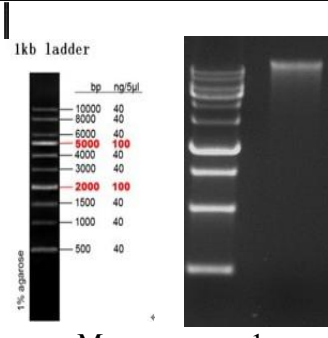
## CERTIFICATE OF ANALYSIS

### Panel-Ref® Structural Variation Cocktail I

#### Product information

Name	Panel-Ref® Structural Variation Cocktail I
Catalog No.	CBP90033
Lot No.	CGD70468529
Format	Genomic DNA
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	May-26-2021
Expiry	36 months from the date of manufacture

#### Quality Control

Test Items	Standard	Results	Passed
Quantity	1ug/vial*2vials	1ug/vial*2vials	√
Concentration	Qubit 3.0	40 ng/uL±10%	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.0	1.80	√
DNA electrophoresis	No Degradation	 <p>           1kb ladder            bp ng/5ul            10000 40            8000 40            6000 40            5000 100            4000 40            3000 40            2000 100            1500 40            1000 40            500 40            1% agarose            M I            M: Marker            I: Panel-Ref® Structural Variation Cocktail I         </p>	√

Gene	DNA Change	AA Change	Variant Type	%AF
AKT1	c.49G>A	AKT1 E17K	SNV	5.77%
PIK3CA	c.1624G>A	PIK3CA E542K	SNV	5.24%
ERBB2	c.2324_2325ins12	ERBB2 p.A775_G776insYVMA	Insertion	4.26%
EGFR	c.2235_2249del15	EGFR p.E746_A750delELREA	Deletion	5.38%
ROS1	N/A	CD74-ROS1 Fusion	Fusion	4.44%
ALK	N/A	EML4-ALK Fusion V1	Fusion	4.63%
MET	N/A	MET Amplification	CNV	CN=4.31
ERBB2	N/A	ERBB2 Amplification	CNV	CN=4.86

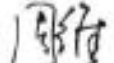
**DdPCR Acceptance criteria**

<b>Expected value</b>	<b>Acceptance criteria</b>	<b>Expected value</b>	<b>Acceptance criteria</b>
0%	≤0.1%	<5 copies	Expected value ± 30%
<1%	Expected value ± 50%	≥5 and <10 copies	Expected value ± 20%
≥1% and <5%	Expected value ± 30%	≥10 copies	Expected value ± 15%
≥5% and <10%	Expected value ± 20%		
≥10%	Expected value ± 10%		

**Caution:**

For research use only.

If you have any questions about the Certificate of Analysis, please contact us.

Certified by:  Date:\*\*\*\*