



Panel-Ref® gDNA Cocktail III Reference Standard

CBP90010

I. Description

Panel-Ref® gDNA Cocktail III Reference Standard includes important sites of common genes, involving 10 sites of genes such as EGFR/BRAF/KRAS/PIK3CA/EML4-ALK/CCDC6-RET/ERBB2 CNV/MYC CNV, covering multiple variation types of SNP Del Translocation CNV, with a variation frequency of 5%, MSI-H, and dPCR calibration.

II. General information

Name	Panel-Ref® gDNA Cocktail III Reference Standard
Cat. No.	CBP90010
Format	Genomic DNA
Size	1ug/vial * 1 vial
Intended Use	Research Use Only
Buffer	Tris-EDTA
Storage Conditions	2-8°C
Expiry	36 months from the date of manufacture

III. Technical Data

Gene	AA Change	CDS Change	Ex on	Cosm ID	Expected %AF	DdPC R %A F (n=1)	DdPC R %A F (n=2)	DdPC R %A F (n=3)	Chr position (GRCh37)
EGFR	p.E746_A750del	c.2235_2249del15 GGAATTAA GAGAAGC>-	19	COS M6223	5	5	4.9	5.2	chr7:55242465_55242479
EGFR	p.L858R	c.2573T>G	21	COS M6224	5	4.9	5.1	4.8	chr7:55259515
EGFR	p.T790M	c.2369C>T	20	COS M6240	5	4.6	5.1	4.7	chr7:55249071
EGFR	p.G719S	c.2155G>A	18	COS M6252	5	5.6	5.5	5.2	chr7:55241707
BRAF	p.V600E	c.1799T>A	15	COS M476	内源突变	N/A	N/A	N/A	chr7:140453136
KRAS	p.G12D	c.35G>A	2	COS M521	5	5	5.6	5.3	chr12:25398284
KRAS	p.Q61H	c.183A>C	3	COS M554	内源突变	N/A	N/A	N/A	chr12:25380275
PIK3CA	p.E545K	c.1633G>A	10	COS M763	5	4.6	5	4.9	chr3:178936091
PIK3CA	p.H1047R	c.3140A>G	20	COS M775	内源突变	N/A	N/A	N/A	chr3:178952085
EML4-ALK	E13-A20	DNA Translocation	N/A	COSFA 408	5	4.2	4.6	4.3	N/A
CCDC6-RET	E1-E12	DNA Translocation	N/A	COSFA 1271	5	5.6	5.1	5.7	N/A
ERBB2	CNV	Amplification	N/A	N/A	CN=6	CN=6.8	CN=6.3	CN=6.7	N/A
MYC	CNV	Amplification	N/A	N/A	CN=10	CN=9.79	CN=10.48	CN=9.63	N/A



IV.MSI Inspection Data

CBP90010 MSI-H				
Marker	Size 1	Size 2	Size 3	Size 4
NR21	120.56	130.59		
Bat26	164.91	175.21		
PentaC	219.19	229.51	234.76	239.91
Bat25	109.31	117.71		
NR27	141.74	155.11		
PentaD	177.30	181.78	186.59	196.23
Amel	106.82	112.37		
NR24	125.70	128.42	132.01	
Mono27	161.52	170.83		