

S3 Table. Detection sensitivity of ADPS EGFR Mutation Test Kit using FFPE reference standard

<i>EGFR</i> mutation	Desired MAF (%)	Detected wells in 24 replicates	Detection rate (95% CI, %)
S768I	0.05	24/24	100.0 (85.8-100.0)
	0.02	24/24	100.0 (85.8-100.0)
	0.01	24/24	100.0 (85.8-100.0)
	0.005	22/24	91.7 (73.0-99.0)
	0.0025	13/24	54.2 (32.8-74.5)
	0.00125	14/24	58.3 (36.6-77.9)
Ex19Del (c.2235_2249del)	0.10	24/24	100.0 (85.8-100.0)
	0.05	24/24	100.0 (85.8-100.0)
	0.02	22/24	91.7 (73.0-99.0)
	0.01	19/24	79.2 (57.9-92.9)
	0.005	11/24	45.8 (25.6-67.2)
	0.0025	5/24	20.8 (7.1-42.2)
T790M	0.15	24/24	100.0 (85.8-100.0)
	0.10	24/24	100.0 (85.8-100.0)
	0.05	24/24	100.0 (85.8-100.0)
	0.02	13/24	54.2 (32.8-74.5)
	0.010	12/24	50.0 (29.1-70.9)
	0.005	4/24	16.7 (4.7-37.4)
L861Q	0.05	24/24	100.0 (85.8-100.0)
	0.02	24/24	100.0 (85.8-100.0)
	0.01	23/24	95.8 (78.9-99.9)
	0.005	20/24	83.3 (62.6-95.3)
	0.0025	8/24	33.3 (15.6-55.3)
	0.00125	7/24	29.2 (12.6-51.1)
G719S	0.40	24/24	100.0 (85.8-100.0)
	0.30	24/24	100.0 (85.8-100.0)
	0.20	24/24	100.0 (85.8-100.0)
	0.15	13/24	54.2 (32.8-74.5)
	0.100	1/24	4.2 (0.1-21.1)
	0.050	0/24	0 (0.0-14.3)
Ex20Ins	0.05	24/24	100.0 (85.8-100.0)

(c.2300_2308dup)	0.02	24/24	100.0 (85.8-100.0)
	0.01	23/24	95.8 (78.9-99.9)
	0.005	13/24	54.2 (32.8-74.5)
	0.0025	15/24	62.5 (40.6-81.2)
	0.00125	5/24	20.8 (7.1-42.2)
L858R	0.10	24/24	100.0 (85.8-100.0)
	0.05	24/24	100.0 (85.8-100.0)
	0.02	23/24	95.8 (78.9-99.9)
	0.01	21/24	87.5 (67.6-97.3)
	0.005	13/24	54.2 (32.8-74.5)
	0.0025	5/24	20.8 (7.1-42.2)

ADPS, allele-discriminating priming system; CI, confidence interval; EGFR, epidermal growth factor receptor; FFPE, formalin-fixed paraffin-embedded; MAF, mutant allele fraction.