Supplemental Table 1: Preparation of the in-house cell lines distributed in the 2013 and 2014 ESP EQA schemes

Title	Sensitive detection methods are key to identify secondary EGFR c.2369C>T p.(Thr790Met) in non-small cell lung cancer tissue samples.
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Provider	Sample type	Scheme year	Ratio *EGFR* mutated cell-line/*EGFR* wild-type cell line	1st *EGFR* Variant	VAF variant 1 (in %)	2nd *EGFR* variant	VAF variant 2 (in %)
ESP	Cell line	2013	50%/50%	c.2369C>T p.(Thr790Met)	25†	c.2573T>G p.(Leu858Arg)	25†
		2014	90%/10%	c.2369C>T p.(Thr790Met)	45†	c.2573T>G p.(Leu858Arg)	45†
			50%/50%		25†	c.2573T>G p.(Leu858Arg)	25†

In-house cell lines were created by mixing cell lines with the *EGFR* mutation with an *EGFR*-wild-type cell line in a ratio indicated in the respective column. The homogeneous mixed cells were fixed for one hour in neutral-buffered formalin, mixed with warm agar (all cells distributed in 4 tubes) and the agar plugs were embedded in paraffin-blocks conform standard histopathology procedures. Paraffin blocks were cut to sections with a thickness of 4-5 µm, and were provided on glass slides. Refseq EGFR: LRG_304t1 (NM_005228.4). †Variant allele frequency based on the percentage of tumor cells. E.g. cell line of 50% tumor cells in a wild-type background was considered as a VAF of 25%. Abbreviations: EGFR, epidermal growth factor receptor; ESP, European Society of Pathology; LRG, Locus Reference Genomic; VAF, variant allele frequency.