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Comparison of dNTPs Mix from Vivantis and Supplier P

Amplification of MCS region with inserts 1.4kb from pTZ using M13 primer in a 50µl reaction.
5µl of PCR product is loaded per lane and electrophoresed in 1.0% TBE agarose gel.
2 different brands of dNTPs mixes are tested in 0.2mM, 0.1mM and 0.05mM in a 50µl PCR reaction.

Experimental Date: 25th July 2016

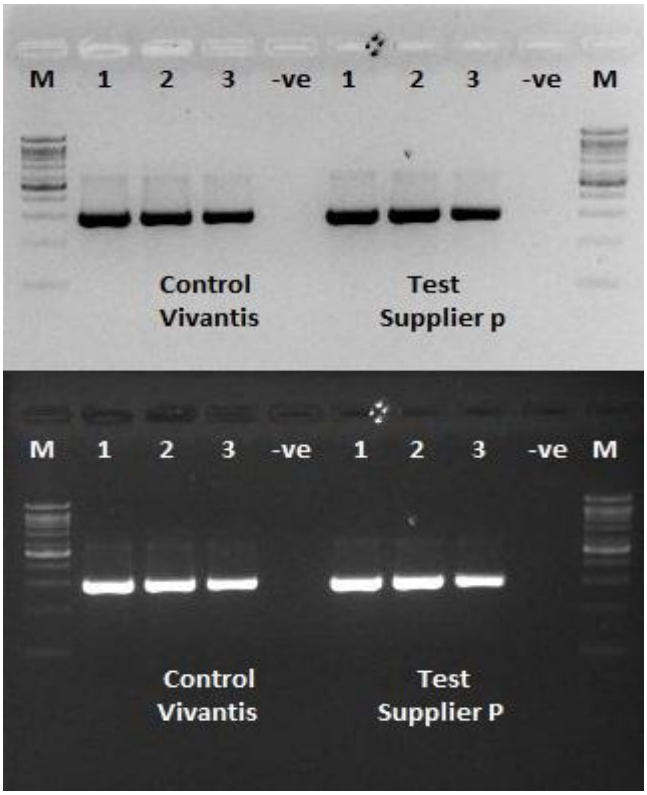

Figure 1: 10mM dNTPs mix is diluted into 2mM, 1mM and 0.5mM. Amplification of pTZ template using M13 primer and 5µl of different concentration of dNTPs mix. 5µl of PCR product is loaded per lane. Expected PCR product size amplified is 1.4kb.

Legend:

1: Amplification using 0.3ng/µl of pTZ DNA template, 0.2µM of primers and 0.2mM dNTPs mix
2: Amplification using 0.3ng/µl of pTZ DNA template, 0.2µM of primers and 0.1mM dNTPs mix
3: Amplification using 0.3ng/µl of pTZ DNA template, 0.2µM of primers and 0.05mM dNTPs mix
-ve: Amplification using 0.2µM of primers and 0.2mM dNTPs mix
M: VC 1kb DNA ladder

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Conclusion:

Both dNTPs mixes are performed up to standard; the performance of Vivantis's dNTPs mix is equivalent to the performance of Supplier P's dNTPs mix.

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