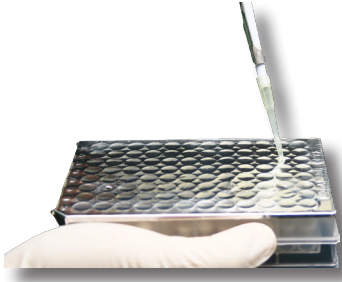


OneStep™ PCR Inhibitor Removal Kit

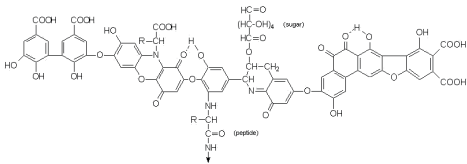
Simple, Rapid, Reliable PCR Inhibitor Removal from Impure DNA Preparations



- For high quality DNA (or RNA) that is free of enzymatic inhibitors including polyphenolics, humic/fulvic acids, tannins, melanin, etc*.
- Fast, one-step procedure for “cleaning” impure samples prior to PCR, sequencing, RT, or other enzymatic reactions.

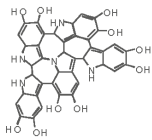
Format

Spin Column or 96-Well Plate.



Humic Acid

Model structure of humic acid (Stevenson 1982)



Melanin

Melanin polymer of ~5 DHI/DHICA (Clancy 2001)

The **OneStep™** and **OneStep-96™** PCR Inhibitor Removal Kits contain all the components necessary to efficiently remove contaminants from DNA and RNA preparations that can inhibit downstream enzymatic reactions such as PCR and RT, respectively. The column/plate matrices have been specifically designed for the efficient removal of polyphenolic compounds, humic/fulvic acids, tannins, melanin, etc. Polyphenolic compounds can contaminate impure DNA and RNA preparations from soil, plants, skin, and fecal samples amongst others. Sample cleanup is as simple as: applying, spinning and recovering a sample from the column or plate.

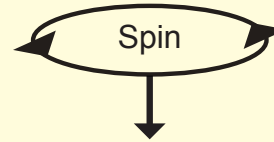
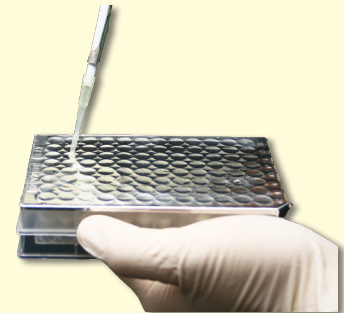
Outline of the OneStep™ PCR Inhibitor Removal Kit Procedure

Spin Column Format

96-Well Format

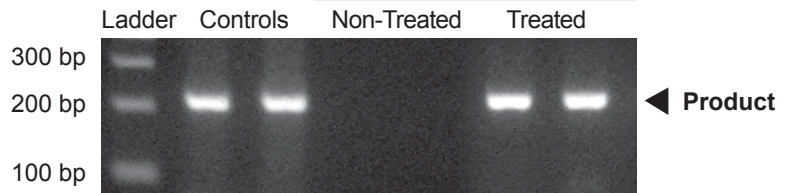


Add Sample



Inhibitor-Free DNA

DNA Sample Containing Humic Acid



DNA is efficiently amplified by PCR following humic acid removal with the **OneStep™** PCR Inhibitor Removal Kit. The figure shows amplification of a 200 bp product from DNA containing humic acid that was “treated” with the kit. Alternatively, PCR amplification was completely inhibited in the case of the “non-treated” sample. In each case, equal amounts of DNA were used for each PCR and equivalent amounts of the reaction were then analyzed in a 2.0% (w/v) agarose/TAE/EtBr gel. The ladder is a 100 bp DNA marker (Zymo Research). Hot start PCR was performed using ZymoTaq™ PreMix (Zymo Research).

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Ordering Information

Référence	Désignation	Conditionnement
ZD6030	OneStep PCR Inhibitor Removal Kit	50 preps
ZD6035	OneStep-96 PCR Inhibitor Removal Kit	2 x 96 preps
ZD6030S	OneStep PCR Inhibitor Removal Kit (Trial Size)	5 preps

*For removal of the polysaccharides in environmental samples like soil, feces, water, plant, etc, use the specific DNA or RNA isolation kits from Zymo Research.

Service technique

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