

appleton®

For the Life Scientist



AppTaq Polymerase

Routine, Robust and Fast PCR



AppTaq Polymerase

Your Perfect Partner for Routine PCR

AppTaq Polymerase is a highly thermostable enzyme for all routine PCR amplification of DNA fragments up to 6 kb. The polymerase has 5' to 3' exonuclease activity but no proofreading capacity. For extra convenience and to maximise PCR yields, its 5x reaction buffer has pre-added enhancers, stabilisers, MgCl₂ and dNTPs. It works in fast or standard thermal cycling conditions. The enzyme generates 3'adenine overhangs on the PCR products which can then be cloned into TA vectors. Choose from 3 different formats: 1) enzyme plus buffer, 2) ready-mix containing enzyme & buffer, or 3) ready-mix with enzyme, buffer and red dye for direct loading onto gels.

Main Features

- For routine PCR of amplicons up to 6kb
- Pre-optimised buffer system with pre-added dNTPs and MgCl₂
- Works under standard or fast cycling conditions
- Clone PCR products into TA vectors
- Amplifies from complex GC- rich or AT-rich templates
- Suitable sample types: mammalian genomic DNA/ GC- or AT-rich DNA
- Available as a ready mix for extra convenience or with a red dye for visualising PCR products by agarose gel electrophoresis

Ordering Information

Product	ARP001	ARP003	ARP052	ARP062
AppTaq Polymerase (5U/μl) &	500 units (1 x 0.1ml)	2000 units (4 x 0.1ml)		
5x Appleton	4x 1ml	16 x 1ml		
AppTaq Mix (2X)			200 reactions (5x 1ml)	
AppTaq RedMix (2X)				200 reactions (5x 1ml)

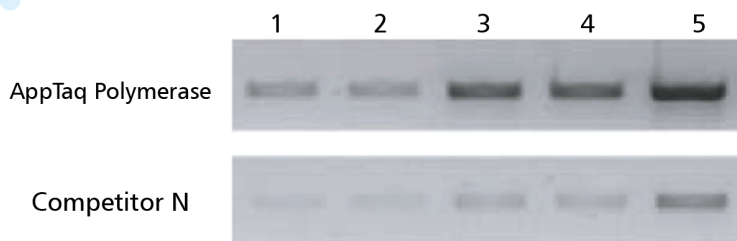


Figure 1: PCR amplification of a 2kb fragment of the HPRT1 gene using AppTaq Polymerase. Human genomic DNA was serially diluted 20 fold from 100ng to 0.6 pg. Lanes: 1 – 0.6pg, 2 – 12.5pg, 3 – 0.25ng, 4 – 5ng, 5 – 100ng

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