

# Proteinase K Protocol Digestion Guide

## Source: Bacteria

[GoldBio Proteinase K Catalog # P-480 & P-480-SL](#)



Source	Setup Details	Comments	Quick References
Bacteria	<b>Temperature:</b> 55°C <b>Time:</b> 3 hours <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> NA		<a href="#">A Simple "Universal" DNA Extraction Procedure Using SDS and Proteinase K Is Compatible with Direct PCR Amplification</a>  <a href="#">Goldenberger, D., Perschil, I., Ritzler, M., &amp; Altwegg, M.</a>
Bacteria	<b>Temperature:</b> 55°C <b>Time:</b> 1 hour <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 10 µl		<a href="#">DNA Isolation Protocols Affect the Detection Limit of PCR Approaches of Bacteria in Samples from the Human Gastrointestinal Tract</a>  <a href="#">Erwin G. Zoetendal, Kaouther Ben-Amor, Antoon D. L. Akkermans, Tjakko Abee, and Willem M. de Vos</a>
Bacteria	<b>Temperature:</b> 37°C <b>Time:</b> 1 hour <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 3 µl		<a href="#">Preparation of Genomic DNA from Bacteria</a>  <a href="#">K. Wilson</a>
Bacteria	<b>Temperature:</b> 56°C <b>Time:</b> 1-3 hours <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> NA		<a href="#">Bacterial Genomic DNA isolation using CTAB</a>  <a href="#">Feil, W., Feil, H., &amp; Copeland, A.</a>

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## Source: Formalin-Fixed, Paraffin-Embedded

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Source	Setup Details	Comments	Quick References
FFPE Tissue	<b>Temperature:</b> 55-56°C <b>Time:</b> overnight <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> 40 µl		<a href="#">Comparison of Three Methods for DNA Extraction from Paraffin-Embedded Tissues</a>  <a href="#">Mirmomeni, M., Ma, S. S., Sisakhtnez, S., &amp; Doranegard, F.</a>
FFPE Tissue	<b>Temperature:</b> 56°C <b>Time:</b> overnight <b>Stock Concentration:</b> NA <b>Volume:</b> 35 µl	Method involving kit.	<a href="#">Comparison of Three Methods for DNA Extraction from Paraffin-Embedded Tissues</a>  <a href="#">Mirmomeni, M., Ma, S. S., Sisakhtnez, S., &amp; Doranegard, F.</a>
FFPE Tissue	<b>Temperature:</b> 56°C <b>Time:</b> overnight <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 20 µl		<a href="#">The Suitability of DNA Extracted from Formalin-Fixed, Paraffin-Embedded Tissues for Double Differential Polymerase Chain Reaction Analysis</a>  <a href="#">Bielawski, K., Zaczek, A., Lisowska, U., Dybikowska, A., Kowalska, A., &amp; Falkiewicz, B.</a>
FFPE Tissue	<b>Temperature:</b> 56°C <b>Time:</b> 16 hours <b>Stock Concentration:</b> NA <b>Volume:</b> 20 µl	Method 1 by manufacturer's protocol.	<a href="#">Efficient DNA Extraction for HPV Genotyping in Formalin-Fixed, Paraffin-Embedded Tissues</a>  <a href="#">Steinau, M., Patel, S. S., &amp; Unger, E. R.</a>
FFPE Tissue	<b>Temperature:</b> 65°C <b>Time:</b> 16 hours <b>Stock Concentration:</b> NA <b>Volume:</b> NA	Method 2 by a high heat treatment.	<a href="#">Efficient DNA Extraction for HPV Genotyping in Formalin-Fixed, Paraffin-Embedded Tissues</a>  <a href="#">Steinau, M., Patel, S. S., &amp; Unger, E. R.</a>
FFPE Tissue	<b>Temperature:</b> 55°C <b>Time:</b> overnight <b>Stock Concentration:</b> 600 mAU/ml <b>Volume:</b> 20 µl		<a href="#">Rapid Detection and Identification of Mucormycetes from Culture and Tissue Samples by Use of High-Resolution Melt Analysis</a>  <a href="#">Hrncirova, K., Lengerova, M., Kocmanova, I., Racil, Z., Volfova, P., Palousova, D., . . . Mayer, J.</a>

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# Proteinase K Protocol Digestion Guide

## Source: Mammalian

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Source	Setup Details	Comments	Quick References
Mammalian	<b>Temperature:</b> 37°C <b>Time:</b> 12 hours <b>Stock Concentration:</b> 50 ug/ml <b>Volume:</b> NA	High molecular weight DNA. There are 2 phenol extractions in this paper.	<a href="#">Isolation of High-Molecular-Weight DNA from Mammalian Cells</a> <a href="#">Gross-Bellard, M., Oudet, P., &amp; Chambon, P.</a>
Mammalian	<b>Temperature:</b> 65°C <b>Time:</b> 2 hours <b>Stock Concentration:</b> NA <b>Volume:</b> NA	Human genomic DNA extraction.	<a href="#">High-Yield Noninvasive Human Genomic DNA Isolation Method for Genetic Studies in Geographically Dispersed Families and Populations</a> <a href="#">Meulenbelt, I., Droog, S., Trommelen, G., Boomsma, D., &amp; Slagboom, P.</a>
Mammalian	<b>Temperature:</b> 60°C <b>Time:</b> 10-15 minutes <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> 125 µl	Rapid Method Protocol. Perform digestion until clear. Watch carefully. Longer incubation can cause the degradation of DNA.	<a href="#">A rapid method for the isolation of genomic DNA from citrated whole blood</a> <a href="#">Parzer, S., &amp; Mannhalter, C.</a>
Mammalian	<b>Temperature:</b> NA <b>Time:</b> overnight <b>Stock Concentration:</b> NA <b>Volume:</b> NA	Standard isolation for white blood cells.	<a href="#">A rapid method for the isolation of genomic DNA from citrated whole blood</a> <a href="#">Parzer, S., &amp; Mannhalter, C.</a>
Mammalian	<b>Temperature:</b> 58°C <b>Time:</b> 2 hours <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 35 µl	Genomic DNA from buccal cells.	<a href="#">A Simple Mouthwash Method for Obtaining Genomic DNA in Molecular Epidemiological Studies</a> <a href="#">Lum, A., &amp; Marchand, L.</a>

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# Proteinase K Protocol Digestion Guide

## Source: Tissue or Blood

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Source	Setup Details	Comments	Quick References
Tissue	<b>Temperature:</b> 37°C <b>Time:</b> 6 hours-2 days <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> 30 µl	Fresh or Frozen Tissue Protocol.	<a href="#">DNA Extraction from Fresh or Frozen Tissues</a> <a href="#">Fan, H., &amp; Gulley, M. L.</a>
Tissue	<b>Temp:</b> 55°C <b>Time:</b> 3 hours <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> 30 µl	Fresh or Frozen Tissue Protocol - Alternative Pro K digestion offered.	<a href="#">DNA Extraction from Fresh or Frozen Tissues</a> <a href="#">Fan, H., &amp; Gulley, M. L.</a>
Tissue	<b>Temp:</b> 65°C <b>Time:</b> 3 hours <b>Stock Concentration:</b> 10 mg/ml <b>Volume:</b> 20 µl		<a href="#">Protocol for Extraction of Genomic DNA from Swine Solid Tissues</a> <a href="#">Biase, F. H., Franco, M. M., Goulart, L. R., &amp; Antunes, R. C.</a>
Tissue	<b>Temp:</b> 55°C <b>Time:</b> 5 hours - overnight <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 10 µl	Use only 5 ul pro K for overnight digestion.	<a href="#">Zhibin's Protocol of Tissue Processing for PCR genotyping</a> <a href="#">Chen, Z.</a>
Tissue or Blood	<b>Temp:</b> 60°C <b>Time:</b> 4 hours <b>Stock Concentration:</b> 20 mg/ml <b>Volume:</b> 20 µl	Second addition: 10 ul of Pro K for muscle, frog toes, lizard tails. Liver requires 20 ul Pro K in the first addition and 5 ul in second. Blood requires 20 ul Pro K in the first digestion and 20 ul Pro K in the second. The additions can be reversed for convenience according to this paper. Second digestion: 37 °C overnight, 20 mg/ml, 5-10 ul.	<a href="#">DNA Isolation from Blood or Tissue Using Phenol/Chloroform</a>

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