

**ArcticZymes is dedicated to the quality of our products.**  
 We manufacture all our products at our ISO:9001 certified facility in Norway.

Product Name	Catalogue Number	Concentration	Size	Units
Cod UNG 1-1000	70500-202	1U/μl	1ml	1kU
Cod UNG 50-50k	70500-150	50U/ul	1ml	50kU
Cod UNG 50-200k	70500-160	50U/ul	4ml	200kU
Glycerol-free Cod UNG 5kU	70510-105	50U/ul	100μl	5kU
SAP 1-5000	70700-202	1U/μl	5ml	5kU
SAP 50-10M	70700-110	Min. 20U/ul	500ml	Min. 1MU
HL-dsDNase 2-1000	70800-202	2U/μl	500μl	1kU
HL-dsDNase 5-2500	70800-203	5U/μl	500μl	2.5kU
HL-dsDNase 50-50k	70800-150	50U/ul	1ml	50kU
HL-dsDNase 2-100k	70800-110	2U/ul	50ml	100kU
HL-dsDNase 2-500k	70800-120	2U/ul	250ml	500kU
Glycerol-free HL-dsDNase 5kU	70810-50	80-140U/μl	50μl	5kU
SAN 5kU	70900-201	25U/μl	250μl	5kU
SAN 25kU	70900-202	25U/μl	1ml	25kU
HL-Exol	70100-201	20U/ul	125μl	2.5kU
HL-Exol	70100-150	20U/μl	2.5ml	50kU

ArcticZymes understands and values the need to quickly mobilize OEM products for commercial partners. We offer the convenience of providing bulk enzymes as off the shelf products, in standard sizes, concentrations, and formats (including lyophilization-ready solutions). In addition, ArcticZymes offers its enzyme portfolio in customized formats. Please contact for additional information.

[www.arcticzymes.com](http://www.arcticzymes.com)

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# ArcticZymes

## Enzyme innovations from the Arctic

your OEM partner to deliver novel solutions  
 for genomics and proteomics

**HEAT LABILE**

**COLD ACTIVE**

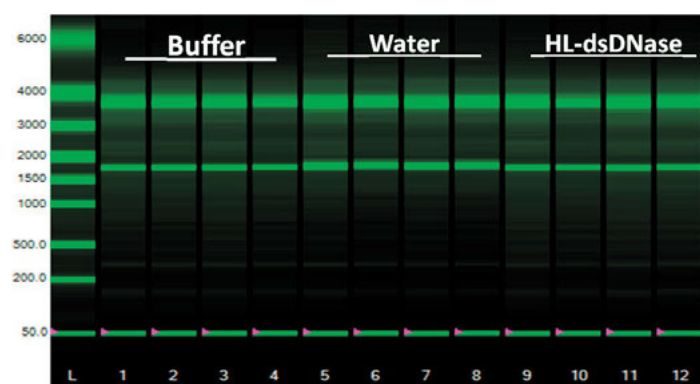
**SALT TOLERANT**

**UNIQUE SPECIFICITY**



## Heat Labile Double-Strand Specific DNase (HL-dsDNase)

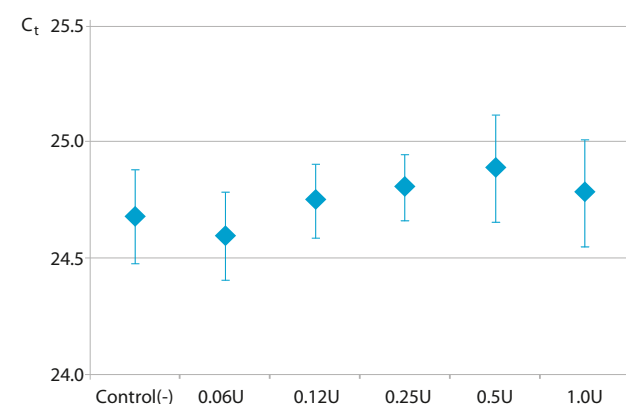
HL-dsDNase is a unique DNase, specific to double stranded DNA targets. This enzyme will not digest RNA or ssDNA (or RNA in hybrids) and can be used to remove DNA contaminants. This enzyme has been used to remove contaminating DNA from master mixes and purified RNA. HL-dsDNase can be fully inactivated at 58°C, thus preventing interference with applications downstream of the decontamination step. HL-dsDNase is also available in a convenient glycerol-free format, enabling automation and lyophilisation.



**HL-dsDNase treatment leaves RNA quality intact.** RNA incubated with buffer (lane 1-4), water (lane 5-8), or 0.1U/ul HL-dsDNase (lane 9-12). Samples were analyzed using the Eukaryote Total RNA StdSens Assay (Bio-Rad Experion), and the results show no measurable negative effects of RNA integrity (RQI>8.5) or quantity.

## Cod UNG

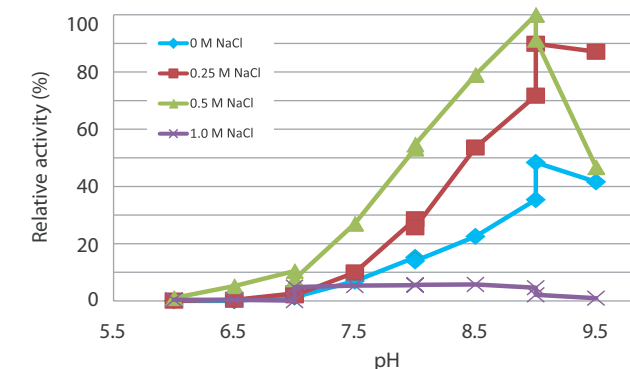
Cod UNG is derived from Arctic Cod and demonstrates all normal activities of uracil DNA-glycosylase; however, Cod UNG is heat labile and irreversibly inactivated. Compared with other like-enzymes, Cod UNG quickly loses activity above 40°C and is irreversibly inactivated at temperatures above 50°C. These attributes make this the only UNG applicable for 1-Step RT-PCR and an ideal fit for Molecular Diagnostics applications requiring PCR carryover contamination prevention. Cod UNG is available in standard buffers and glycerol free versions to facilitate adoption in assay development.



**Cod UNG does not affect the Cq value of RT-qPCR.** RT-qPCR using 1 ng total RNA as a template. Cod UNG was preincubated for 5 minutes at 25°C. RT-step was performed at 50°C.

## Salt Active Nuclease (SAN)

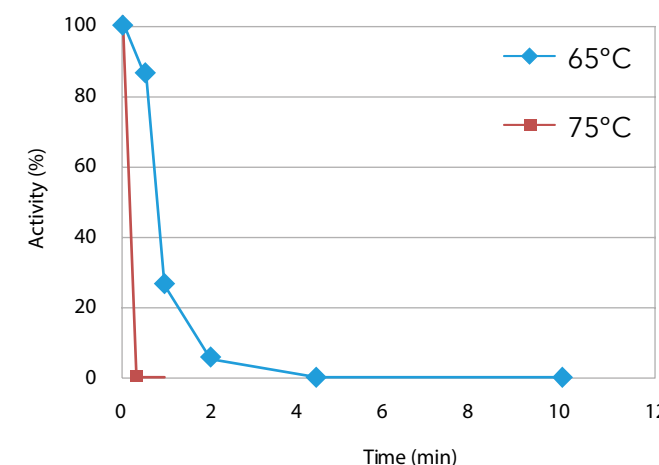
SAN is a general endonuclease capable of digesting all nucleic acids (RNA, DNA, single strand, double strand, circular). SAN has optimal activity at high salt (500 mM) and works at a broad temperature range. These characteristics make this enzyme ideal for removal of nucleic acids from challenging protein purifications and upstream bioprocessing workflows. SAN is also available in a heat labile version (inactivated at 55°C)



**Salt Active Nuclease has optimum activity at high salt and pH.** Relative activity of SAN at different pH and salt combinations

## Shrimp Alkaline Phosphatase (SAP)

SAP is still the gold standard among alkaline phosphatases (AP) and was the first heat labile AP on the market. SAP is a heat-labile all-purpose enzyme dephosphorylating, DNA, RNA nucleotides and proteins. Compared to other AP's on the market, SAP demonstrates outstanding stability and broad compatibility with a wide range of buffer conditions.



**Easy and quick heat-inactivation.** Heat inactivation of SAP at 65°C and 75°C

### Disclaimer:

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