

Thermal Melt Software for UVIKON XS / XL

Overview

LifePower TM-Light is a software program designed to acquire and store data for the evaluation of the meltpoint of a nucleic acid sample. Data generated with this software package can be saved, printed or exported in ASCII or EXCEL format to be used for further calculations.

Melting Temperature (T_m) of Nucleic Acids

The melting temperature (T_m) value and the shape of the thermal transition curve depends on the sequence and length of the nucleic acids for given experimental conditions (ionic strength, pH, etc).

Automated Acquisition

Once the thermal experiment starts, LifePower TM-light continuously acquires the absorbance value at the corresponding temperature at regular user-selected time or temperature intervals until the final temperature has been reached.

Online Display

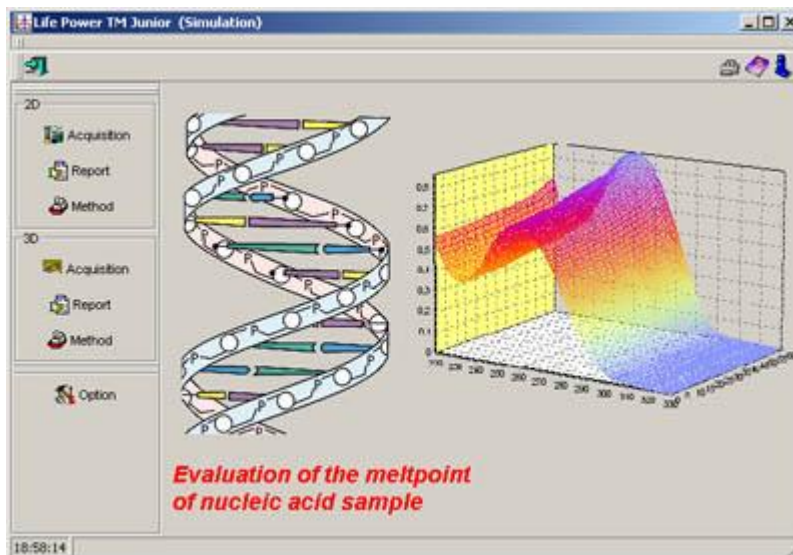
Curve graphics are displayed in real time automatically and updated during data acquisition, at the end of the experiment, the displayed raw data can be processed and normalized.

Reportable Results

Absorbance vs. temperature data with autoscaled graphs and real-time data storage are provided. User defined comments can be stored within the data file and all entered parameters are saved as a customized command file or as default parameters for the next experiment.

Complete Data

The DNA thermal melting curve will provide not only the melting temperature (T_m), but also the free energy and its associated enthalpy and entropy contributions.



Specifications

Common Features	Online control of spectralphotometer and thermosystem
	Definition of temperature gradients
	Extraction to ASCII or Excel with post-processing capability
Database	All experimental data can be stored in a database supplied with the software
	Compressed data storage
	Comfortable search functions
2D - Methods	Real time data acquisition of absorbance versus temperature and wavelength
	Max. 6 wavelengths and 10 samples in parallel
	Automatic basepoint correction
	Additional scans during an experiment
	Numerical or graphical display with multiview

3D - Methods	Acquisition of scans (wavelength versus absorbance) versus temperature
	Max. 10 samples in parallel
	Graphical 3D display with either line or surface view
	3D - rotation, zoom, panning
	Extraction of single scan for a defined temperature
	Extraction of single temperatures for a defined wavelength
Hardware Requirements	
Processor	Pentium III or better
Memory	256 MB RAM, min. 10 GB Harddisk
Operating system	Windows NT 4.0 SP6, Windows 2000 SP4 or Windows XP
All specifications may be subject to change for technical reasons.	

Ordering Information

91-91694	LifePower™ DNA Melting Curve Software for UVIKON XS and XL
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