CRYOCELL

ULTRA LOW ABLATION TEMPERATURES FROM THE SIMPLEST DESIGN

Liquid N_2 cryocell for the NWR Platform

Features

Temperature range -20°C to -100°C

Achieves target temperature in <15 minutes

Stable temperature at -80°C for >6 hours

Easily installed in TwoVol1 or TwoVol2 chamber <2 minutes

Suitable for wet tissues and fluid inclusions

Elemental Scientific LASERS

INNOVATION TO ILLUMINATE

CryoCell
Specifications summary

Elemental Scientific LASERS

Performance Specifications	
Minimum Temperature	-100°C
Maximum Temperature	-20°C
Working area	100mm x 100mm (50mm cooled) 150mm x 150mm (100mm cooled – option)
Cooling Mechanism	Liquid N_2
Temperature Control	Closed-loop temperature sensor mounted directly in the chamber
Coolant volume	2 Litres
Time to target temp	<15 minutes
Cooling time (single fill)	>6 hours @ -80°C
Temperature stability	±1°C over 6 hours <0.5% RSD over 6 hours
Compatibility	
Platforms	NWR193, NWR213, NWRfemto, NWRimage
Sample chambers	TwoVol1 (100mm) TwoVol2 (100mm) TwoVol2 (150mm)
Dual Concentric Injector (DCI)	For 10X improved washout times
Additional Options	
Signal Smoothers	Glass bulb signal smoother and Sentinel signal smoother

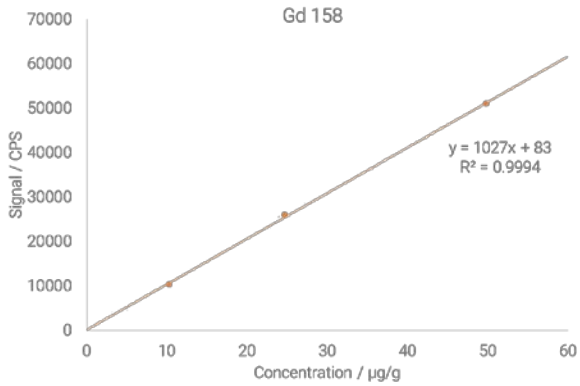

Figure 1. Calibration curve for tissue ablation formed via ablation of "wet" doped Agar gel

Figure 2. A fluid inclusion hosted in quartz

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