

# ARCTis™ Oncology DLD-1

## Always Ready Cryo Tissues

### Origin

DLD-1 is a colorectal adenocarcinoma cell line isolated from the large intestine of a colon adenocarcinoma patient and can be used in cancer research.(ATCC CCL-221™)

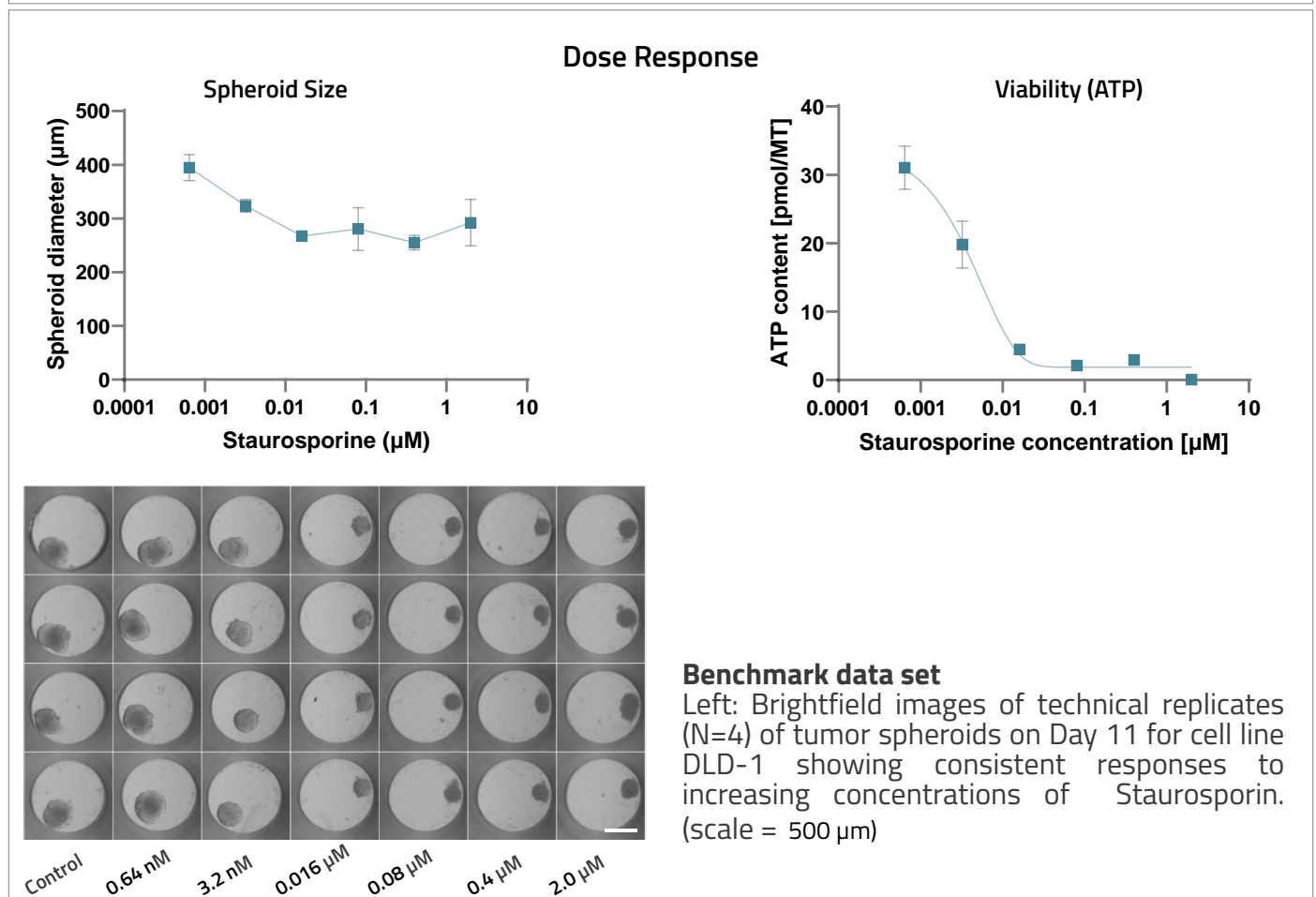
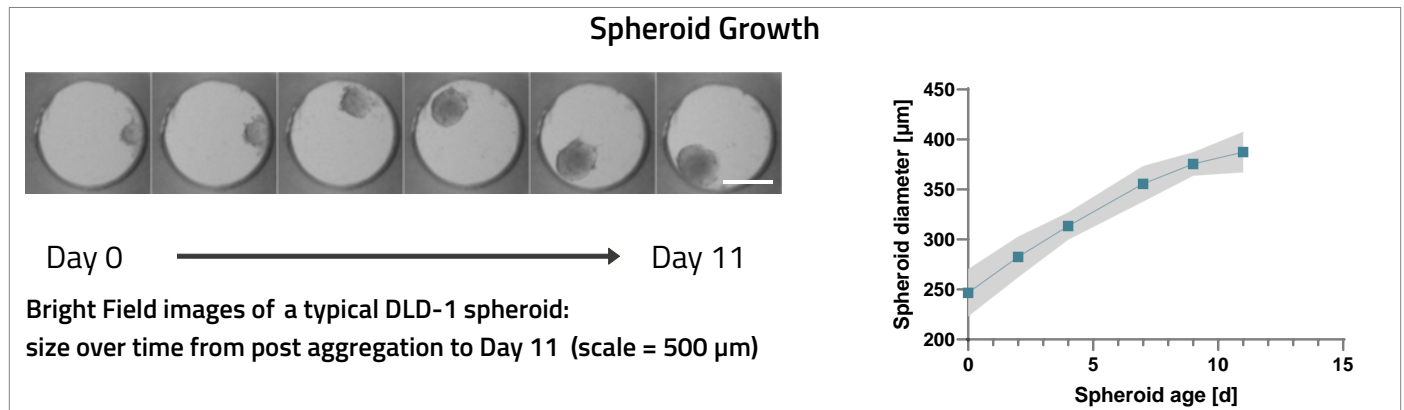
Cell Line	
<b>Product category</b>	Human cells
<b>Organism</b>	Homo sapiens, human
<b>Morphology</b>	epithelial
<b>Tissue</b>	Large intestine; Colon
<b>Disease</b>	Adenocarcinoma; Colorectal, Duke's type C
<b>Applications</b>	3D cell culture Cancer research
<b>Product format</b>	Frozen
<b>Storage conditions</b>	-80°C
<b>Culture platform</b>	Akura™ 96 Spheroid Microplate
<b>Delivery format</b>	96 well/ one MT per well

Model set up	
<b>Model type</b>	Monotypic tumor microtissue
<b>Inoculation cell nr.</b>	1000 cells/well
<b>Assay-ready*</b>	3 days in culture
<b>Morphology</b>	Compact, spheroidal
<b>Size after re-aggregation</b>	~250 µm
Assay specifications	
<b>Assay window</b>	Up to 11 days
	~390 µm (~140 µm)
<b>Viability ATP (Day 10)</b>	~20 -25 pmol/MT
	410 - 380 µm
*Use recommended Re-aggregation Medium	
**Use Tumor Maintenance Medium	

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## Reference data set

DLD-1 cell line was evaluated for spheroid formation, growth and viability over 11 days. Growth characteristics for this model with respect to proliferation and size were measured over 11 days and benchmarked using a standard cytotoxic agent - Staurosporine. Day 0 defines the start of an assay which for DLD-1 is after 3 days in culture for reaggregation and cryopreservation recovery.



## Benchmark data set

Left: Brightfield images of technical replicates (N=4) of tumor spheroids on Day 11 for cell line DLD-1 showing consistent responses to increasing concentrations of Staurosporin. (scale = 500 µm)

Item #	Var. Code	Description
AT-NB00-0T0-001	DLD-1	ARCTis™ Oncology - Colorectal

Mycoplasma	The cell line was tested negative
Virus	Refer to CoA of prod. lot
Quality Control & batch number	Supplied with each shipment

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