

D300e Digital Dispenser.

SPECIFICATIONS

DISPENSING FEATURES



T8+ Dispensehead Cassette



D4+ Dispensehead Cassette

Fluid type	DMSO	Aqueous + surfactant	Aqueous + surfactant + glycerol	Master mix	DMSO, Aqueous + surfactant, Aqueous + surfactant + glycerol, Master mix
Use for	Titration, Low volume dispensing and normalization of master mixes, aqueous fluids (+ surfactants) and DMSO				
Dispenseheads per cassette	8				4
Minimum dispense volume	13 pl	11 pl	12 pl	11 pl	1 nl
Minimum dispense volume (Total dispense volume >10 µl)	1 nl	1 nl	1 nl	1 nl	1 nl
Maximum dispense volume per well	10 µl	10 µl	10 µl	10 µl	10 µl
Minimum fill volume	2 µl	4 µl	4 µl	4 µl	50 µl
CV	< 8%*	< 8%**	< 8%**	< 8%***	< 8%****

* for volumes >100 pl using 100 % DMSO

** for volumes >100 pl using aqueous test fluid containing 0.1% Brij™-35

*** for volumes >100 pl using Master mixes included in the fluid class list

**** for volumes >1 nl using test fluids listed above and Master mixes included in the fluid class list

FLUID REQUIREMENTS



T8+ Dispensehead Cassette



D4+ Dispensehead Cassette

Maximum total dispense volume	10 µl	20 µl	200 µl
Small molecules	Max. 800 Da at 10 mM	Max. 800 Da at 10 mM	Max. 800 Da at 10 mM
Biomolecules	300 kDa, 3 mg/ml	300 kDa, 1 mg/ml	300 kDa, 0.3 mg/ml
	10,000 bp, 3 mg/ml	10,000 bp, 1 mg/ml	10,000 bp, 0.3 mg/ml
Nanoparticles	Stable suspension of < 1 µm diameter particles at max. 0.5 % w/v		
Total buffer components	<150 mM		

FLUID CLASSES

Aqueous solutions require the addition of a surfactant to reduce surface tension and enable priming. In addition, the presence or absence of glycerol impacts dispensing – there are separate fluid classes dependent on glycerol content.

Fluid class	Surfactant	Surfactant concentration in stock solution	Glycerol
a + B	Brij-35	0.1 %	0-5 %
a + B + g	Brij-35	0.1 %	5-20 %
a + TX	Triton® X-100	0.1 %	0-5 %
a + TX + g	Triton X-100	0.1 %	5-20 %
a + Tw	Tween™ 20	0.3 %	0-5 %
a + Tw + g	Tween 20	0.3 %	5-20 %

DIMENSIONS

Dimensions	(W x D x H): 47 x 37 x 23 cm
Plate formats	12-1536 well plates, 6-47 mm plate height
Weight	15 kg
Electrical	100-240 V, 50/60 Hz, 2.6 A
Operating Temperature	20-30 °C (68-86 °F)

For research use only – not for use in diagnostic procedures.

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Australia +61 3 9647 4100 **Austria** +43 62 46 89 33 **Belgium** +32 15 42 13 19 **China** +86 21 220 63 206 **Denmark** +45 70 23 44 50 **France** +33 4 72 76 04 80
Germany +49 79 51 94 170 **Italy** +39 02 92 44 790 **Japan** +81 44 556 73 11 **Netherlands** +31 18 34 48 17 4 **Singapore** +65 644 41 886 **Spain** +34 93 490 01 74
Sweden +46 8 750 39 40 **Switzerland** +41 44 922 89 22 **UK** +44 118 9300 300 **USA** +1 919 361 5200 **Other countries** +43 62 46 89 33

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