

### Known Components that Interfere with QuantiFluor Dye Systems

Chemical	dsDNA	RNA*	ssDNA*
agarose	>0.01%	0.01%	0.08%
ammonium acetate	>50mM	20mM	20mM
boric acid	ND	150mM	ND
bovine serum albumin (BSA)	>1.3%	0.00%	1.00%
calcium chloride	ND	1mM	ND
cesium chloride	ND	10mM	ND
chloroform	>2.5%	0.40%	0.40%
Colorless GoTaq® Reaction Buffer	>20%	ND	ND
DMSO	>20%	ND	ND
dNTP mix	>1.3%	ND	ND
dNTPs	ND	ND	0.5mM
dsDNA	ND	10ng	ND
small dsDNA fragments	300pg	ND	ND
ethanol	>20%	20%	10%
formamide	ND	5%	ND
GoScript™ 5X Reaction Buffer	ND	2%	ND
guanidine thiocyanate	ND	10mM	ND
IgG	>2µg	0.02%	0.50%
ImProm-II™ 5X Reaction Buffer	ND	2%	ND
magnesium chloride	ND	1mM	2mM
phenol	>2.5%	0.50%	0.20%
polyethylene glycol (PEG)	>20%	20%	10%
1,2-propanediol(propylene glycol)	ND	20%	ND
RNA	300pg	ND	60ng
rNTPs	ND	ND	0.5mM
sodium acetate	>1mM	20mM	15mM
sodium chloride	ND	20mM	20mM
sodium dodecyl sulfate (SDS)	>0.01%	0.005%	0.02%
ssDNA	800pg	ND	ND
sucrose	ND	>500mM	ND
5X Transcription Reaction Buffer	ND	0.25%	ND
Triton® X-100	>0.01%	0.50%	0.20%
urea	ND	3M	3M
zinc chloride	ND	1mM	1mM

ND – No data

\*RNA and ssDNA numbers represent levels where there is known interference and should not be treated as a cutoff value. See the manuals for the dye systems for more details.

#### References:

- QuantiFluor® ssDNA System Technical Manual
- QuantiFluor® dsDNA System Technical Manual
- QuantiFluor® RNA System Technical Manual