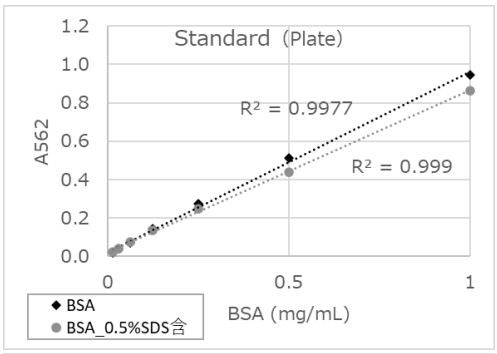
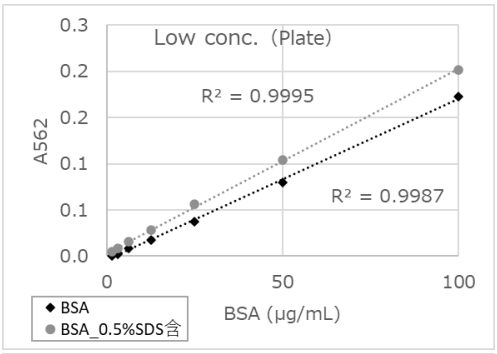
Reference: Concentration of coexisting substances in sample solutions that do not affect measurement

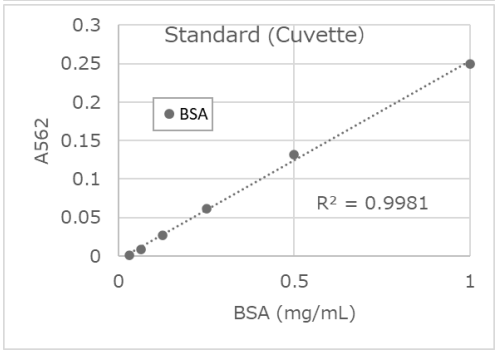
The table below lists the concentrations of coexisting substances contained in the sample that do not affect the reaction of this reagent.

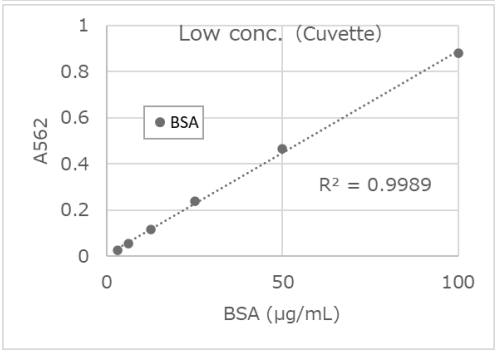
	Pretreatment	
	none	can be
EzRIPA Lysis Kit	1 x	1 x
EzProteoLysis Native	0.125 x	1 x
EzBactYeast Crucher	0.5x	0.5x
EzApply	0.0078125 x	0.125 x
Sodium Deoxycholate	20.0%	20.0%
SDS	0.3%	0.3%
Triton X-100	10.0%	10.0%
NP-40	20.0%	20.0%
Tween 20	2.5%	10%
CHAPS	5%	10%
N-Octyl- β - D-glucopyranoside	10%	10%
n-Octyl- β - D -thioglucoside	10%	10%
Dodecyl- β - D- maltoside	10%	10%
2-Mercaptoethanol	2.5 mM	20 mM
Dithiothreitol	1.25 mM	10 mM
TCEP	1.25 mM	40 mM
Glutathione	0.625 mM	10 mM
Cysteine	0.625 mM	5 mM
Tris/pH8.0	15.625 mM	31.25 mM
Tricine/pH8.0	7.8125 mM	15.625 mM
HEPES/pH8	1M	1M
MOPS/pH8	500 mM	500 mM
Sodium Phosphate Buffer	1M	1M
PBS	2 x	2 x
TBS	1 x	1 x
Ammonium sulfate	62.5 mM	62.5 mM
Urea	6000 mM	6000 mM
Thiourea	0 mM	0 mM
Trichloroacetic acid	187.5 mM	187.5 mM
N,N-dimethylformamide	20%	20%
Dimethyl sulfoxide	5%	20%
Glycerol	20.0%	10.0%
Glucose	1.3%	2.5%
Sucrose	20.0%	20.0%
CaCl2	50 mM	50 mM
MgCl2	250 mM	250 mM
NaOH	250 mM	250 mM
HCl	250 mM	125 mM
MeOH	40.0%	40.0%
EtOH	40.0%	40.0%
EDTA	12.5 mM	12.5 mM
EGTA	5 mM	2.5 mM

Reference data



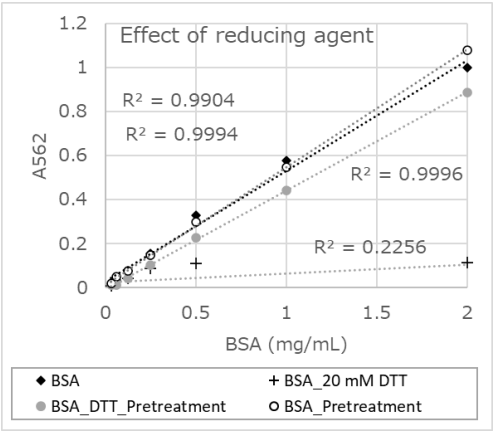


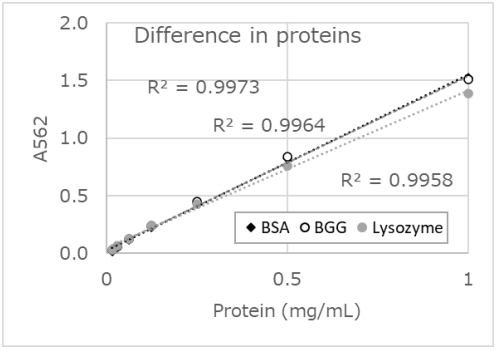




Standard Method Calibration Curve
It shows a calibration curve prepared using a 1/2 dilution series of BSA Standard. BSA and BSA containing 0.5% SDS (BSA_0.5%SDS) were measured in a 96-well plate (top) and cuvette (bottom). Both demonstrate good linearity of quantification.

Calibration curves using low-concentration measurements
These calibration curves were prepared using a 1/2 dilution series of the BSA standard. BSA and BSA containing 0.5% SDS (BSA_0.5%SDS) were measured in a 96-well plate (top) and cuvette (bottom). It demonstrates that quantification is linear even in the low-concentration range.





Differences in Proteins
The figures show calibration curves created using a 1/2 dilution series of BSA Standard, BGG Standard, and Lysozyme. Even with different protein types, there are no significant differences in the measured values and slopes, and a linear calibration curve can be created for each.

Effect of Reducing Agents
The following shows the results of a 1/2 dilution series of a sample in which 20 mM DTT was added to BSA Standard (BSA_20mM DTT), a sample pretreated with BSA (BSA_DTT_Pretreatment), a sample pretreated only (BSA_Pretreatment), and an untreated sample (BSA). This demonstrates that pretreatment does not affect the measurement, and quantification can be performed with minimal inhibitory effects from reducing agents.

ATTO CORPORATION
3-2-2 Motoasakusa, Taito-ku, Tokyo 111-0041, JAPAN
https://www.attoeng.com/
Contact