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## Product Datasheet

### **PsbA | D1 protein of PSII positive control/quantitation standard AGR-AS01-016S**

Article Name	PsbA   D1 protein of PSII positive control/quantitation standard
Biozol Catalog Number	AGR-AS01-016S
Supplier Catalog Number	AS01-016S
Alternative Catalog Number	AGR-AS01-016S
Manufacturer	Agrisera
Category	Proteine/Peptide
Application	WB
Product Description	The psbA gene has been cloned from many species of plants, green algae, and cyanobacteria. The psbA gene is located in the chloroplast genome and encodes for the D1 protein, a core component of Photosystem II. PsbA/D1 is rapidly cycled under illumina...
Molecular Weight	The standard has an actual MW of 41.5 kDa, The presence of a His6 tag causes it to run ~1.7 kDa higher on the gel than the native protein, Note that in most systems, PsbA migrates with an apparent MW of between 30 and 35 kDa.
Form	Lyophilized in glycerol.
Antibody Type	Secondary Antibody
Application Dilute	Standard curve: 3 loads are recommended (0.5, 2 and 4 µl).For most applications a sample load of 0.2 µg of chlorophyll will give a PsbA signal in this range.Positive control: a 2 µl load per well is optimal for most chemiluminescent detection systems.Non-

Application Notes	<p>Concentration: after adding 95 <math>\mu</math>l of sterile milliQ water final concentration of the standard is 0.25 pmoles/<math>\mu</math>l</p> <p>Protein standard buffer composition: Glycerol 10%, Tris Base 141 mM, Tris HCl 106 mM, LDS 2%, EDTA 0.51 mM, SERVA Blue G250 0.22 mM, Phenol Red 0.175 mM, pH 8.5, 0.1mg/ml PefaBloc protease inhibitor (Roche), 50mM DTT. This standard is ready-to-load and does not require any additions or heating. It needs to be fully thawed and thoroughly mixed prior to using. Avoid vigorous vortexing, as buffers contain detergent. Following mixing, briefly pulse in a microcentrifuge to collect material from cap. This standard is stabilized and ready and does not require heating before loading on the gel. Please note that this product contains 10% glycerol and might appear as liquid but is provided lyophilized. Allow the product several minutes to solubilize after adding water. Mix thoroughly but gently Take extra care to mix thoroughly before each use, as the proteins tend to settle with the more dense layer after freezing.</p>
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