

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

### **PsbD | D2 protein of PSII positive control/quantitation standard AGR-AS09-146S**

Article Name	PsbD   D2 protein of PSII positive control/quantitation standard
Biozol Catalog Number	AGR-AS09-146S
Supplier Catalog Number	AS09-146S
Alternative Catalog Number	AGR-AS09-146S
Manufacturer	Agrisera
Category	Proteine/Peptide
Application	WB
Product Description	D2 protein (PsbD) forms the reaction core of PSII (Photosystem II) as a heterodimer with the D1 protein (PsbA). PsbD is homologous to the D1 protein, with slightly higher molecular mass of about 39,5 kDa. Accumulation of D2 protein is an important st...
Molecular Weight	In most gel systems PsbD migrates around 28-30 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 PsbD signal in this range. Positive control: a 2 µl load per well is optimal for most chemiluminescent detection systems. Thi

Application Notes

Concentration: after adding 225  $\mu$ l of milliQ water final concentration of the standard is 0.25 pmoles/ $\mu$ l  
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, 0.1 mg/ml PefaBloc protease inhibitor (Roche), 50 mM 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.