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Datasheet for ABIN190740
Nitrogenase Protein (Nifh)

1 Publication

Overview

Quantity:	100 µL
Target:	Nitrogenase (Nifh)
Host:	Please inquire
Application:	Western Blotting (WB)

Product Details

Brand:	SERVA®
Purification:	affinity purified

Target Details

Target:	Nitrogenase (Nifh)
Background:	Nitrogenase is involved in biological fixation of nitrogen to assimilable ammonia. This product is a recombinant protein standard, source: Nostoc/Anabaena 7120.
Molecular Weight:	34 kDa (larger than a native protein due to the addition of His-tag)

Application Details

Application Notes:	Standard curve: 3 loads are recommended (0.5, 2 and 4 i1/4l). For most applications a sample load of 0.2 i1/4g of chlorophyll will give a NifH signal in this range. Positive control: a 2 i1/4l load per well is optimal for most chemiluminescent detection systems. 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
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Application Details

mix thoroughly before each use, as the proteins tend to settle with the more dense layer after freezing.

Comment: Concentration: after adding 225 µl of milliQ water final concentration of this standard is 0.15 pmoles/ul and this reagent is ready to use and load on a gel. 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.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: For reconstitution add 225 µL of milliQ water

Buffer: 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.

Handling Advice: Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Once reconstituted make aliquots to avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: store lyophilized/reconstituted at -20°C, once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Publications

Product cited in: Levitan, Brown, Sudhaus, Campbell, LaRoche, Berman-Frank: "Regulation of nitrogen

metabolism in the marine diazotroph *Trichodesmium* IMS101 under varying temperatures and atmospheric CO₂ concentrations." in: **Environmental microbiology**, Vol. 12, Issue 7, pp. 1899-912, (2010) ([PubMed](#)).