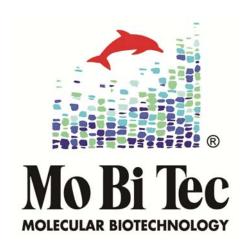
SpeedBlot (His)

Order # PR-SB01-01



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For research use only!!!

1. Description

SpeedBlot (His) is a ready-to-use reagent for the detection of poly-histidine tagged proteins in blot assays. This reagent is equally suitable for Western Blot assays and Dot or Slot Blot assays. The detection reagent is made of an optimized anti-histidine antibody gold nanoparticle conjugate and is reactive against C- and N-terminal tags. The protein of interest is specifically stained in pink directly on the blot. It contains the Qiagen Penta-His Antibody which is covered by patents exclusively licensed to Qiagen GmbH, Germany.

Instant detection of poly-histidine tagged proteins on nitrocellulose membrane with SpeedBlot (His) is easy and does not require relevant hands-on time. Even 0.1 pmol detection limits can be achieved with this highly sensitive detection reagent. This is in the range of conventional ECL detection.

"As easy as Ponceau Red but as specific as ECL antibody!"

2. Kit Contents

Product Name	SpeedBlot (His)	
Order#	PR-SB01-01	
Kit Contents	30 ml SpeedBlot (His), User Manual	
Typical working volumes	Typically, 10 ml are being used per blot. The reagent can be used three times or even more often, depending on the application.	
Storage	SpeedBlot (His) should be stored at room temperature (RT), ideally 16 °C to 25 °C. Freezing should be avoided.	
Stability Originally sealed, the shelf life is 12 month. Upon opening the reagent should be used up within 3 month.		

3. Terms & Conditions

Product Usage: For *In Vitro* Laboratory Research Use Only. NOT to be administered to humans or used for medical diagnosis.

Limited Product Warranty: We offer a LIMITED PRODUCT WARRANTY to our customers. This warranty is limited to 6 months from date of shipment and limits our liability to replacement of this product. No other warranties of any kind, express or implied, including without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by MoBiTec GmbH. We shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.

4. Quality Control

The reagent is manufactured under strict quality control ensuring consistent high product standard. To protect the product from contamination all components are sterilized.

5. Safety Instructions

The reagent contains 0.05% (w/v) sodium azide. This hazardous component requires no declaration below 0.1%. The antibody and gold particle concentration is below the declaration boundary.

However, as the influence of nanoparticles on the body is not fully understood, exposure should be thoroughly avoided. Especially vapor and aerosol generation should be prevented to avoid inhalation. Direct skin and mucosal contact should be circumvented. Accidental spillage should be absorbed with inert material and transferred to a suitable for disposal. Special local regulations should be respected.

6. SpeedBlot (His) Protocol

Electroblotting is performed as usual, e.g., protein is transferred from SDS-PAGE onto nitrocellulose (NC) or polyvinylidene fluoride (PVDF) membrane. Alternatively, fractions from cell extracts or column purification are spotted onto a suitable membrane. In any case, the membrane should be quickly rinsed with plain tap water to remove remaining detergent. The membrane is placed into a clean incubation tray of suitable size.

The SpeedBlot (His) ready-to-use reagent is poured onto the membrane to cover it completely. Incubation is performed on a suitable lab shaker. No blocking, washing, or successive antibody incubation time is required. In approximately one hour His-tagged fusion proteins become visible due to the antibody-induced accumulation of gold particles.

When the staining is satisfactorily strong (30-90 min), the excess of reagent is removed by tap water rinsing of the membrane. The membrane can be dried with filter paper and archived or scanned. There is no detection equipment required. The detection signal is visible to the human eye and may be quantified by spectroscopy or photo-technical equipment. The intensity of the band is proportional to the amount of protein present, thus quantification can be easily achieved with standard spotted next to the sample.



Figure 1. Pour SpeedBlot (His) into suitable container



Figure 2. Submerge membrane in SpeedBlot (His)



Figure 3. Incubate until signal is clearly visible (30-90 min)

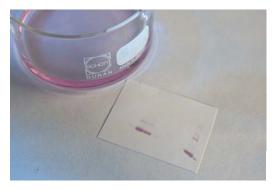


Figure 4. Stained poly-his proteins on the membrane

7. Troubleshooting

Problem	Possible cause	Suggestion	
No signal	SpeedBlot (His) reagent faded, as it	Use fresh SpeedBlot (His) reagent	
	is reused, contaminated, or frozen	and a clean tray	
	No/not sufficient poly-his tagged protein present on the membrane	,	
Too much	l	Use less protein and/or shorten	
background	detection of degraded protein or	incubation time	
	natural multi his proteins		

8. Order Information, Shipping, and Storage

Order#	Product	Amount
PR-SB01-01	SpeedBlot (His)	30 ml
shipped at RT; store at RT		

9. Related Products

Order#	Product	Amount
PB01	Perfect-Block ™ Blocking Reagent (gelatin absed)	100 g
MOBI05	MobiFairy Protein Stabilizer	2 ml
PR-MAG00041-01	M-Beads Magnetic silica beads S-C8, 1.2 μm	2 ml

10. Contact and Support

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Technical Service – Product information

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