SERVA Electrophoresis

PRODUCT INFORMATION

Cyanase™ Inactivation Resin Cartridges Cat. No. 18544

Product Description:

General	Cyanase™ Inactivation Resin is a proprietary blend of Cyanase™ inhibitor protein coupled to Sepharose Fast Flow resin creating a novel method for inactivation and removing the Cyanase™ enzyme prior to downstream applications.
Application	Inactivation and removal of Cyanase™ enzyme
Features	• Average particle size: 90 µm in 50 % buffer slurry (storage buffer: 50 mM Tris, pH 8.0, 2 mM $MgSO_4$) • Recommended max. sample volume per cartridge: 700 µl Recommended max. Cyanase™ activity per cartridge: 50 U • Active over a wide range of conditions (fully active under all normal Cyanase™ reaction conditions; additionally tested in the pH range from 4.8 to 10.0, at 0 °C as well as 500 mM NaCl with no effect on the Cyanase™ enzyme inactivation and removal) • Extremely tight interaction between enzyme and resin • No interactions with other proteins or targets
Storage	Store at +2 °C to +8 °C upon arrival.
Protocol	• Remove bottom tab from the cartridge and place the cartridge in a 1.5 ml microcentrifuge tube • Spin cartidge 30 s at 10,000 x g to remove storage buffer and remove cap
Cell lysate treatment	• Clarify the Cyanase™ treated lysate by filtration or centrifugation • Pipette lysate into cartridge and shake or invert the slurry for 20 min at room temperature • Place the cartridge into a provided collection tube, spin 1 min at 10,000 x g • Discard cartridge and place cap on collection tube
Pre-PCR DNA cleanup	Treat 700 µl PCR master mix (w/o template and primers) with 50 U Cyanase™ for 30 – 60 min at 37 °C (For effective Cyanase™ activity the PCR master mix should contain at least 2-5 mM Mg^{2+} and below 100 mM NaCl/KCl.) • Pipette master mix into cartridge and shake or invert the slurry for 20 min at room temperature • Place the cartridge into a provided collection tube, spin 1 min at 10,000 x g • Discard cartridge and place cap on collection tube • Add template and primers and continue PCR

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