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119 Purple Sage Dr

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## Cyanase™ Inactivation Resin

**Catalog#: 1020**

**Lot#:**

**Average Particle Size:** 90 µm.

**Storage Buffer:** 50 mM Tris pH 8.0, 2 mM MgSO<sub>4</sub>. Store at +4°C

**Functional Testing:** Each lot of Inactivation resin was tested functionally by incubating 50 µl of 50% resin slurry with 50 U of Cyanase in 100 µl of 50 mM Tris pH 8.0, 6 mM MnSO<sub>4</sub> for 20 minutes with constant inversion. The resulting reaction was spun down and 10 µl of the reaction were incubated with 1 µg of full length λ DNA for 1 hour in 50 mM Tris pH 8.0, 6 mM MnSO<sub>4</sub>. Product must be full length as observed on a 1% Agarose gel stained with Ethidium Bromide.

**Product Information:** Inactivation resin is fully active under all normal Cyanase reaction conditions. In addition inactivation resin has been tested down to pH 4.8, 0°C, and in 500 mM NaCl with no effect on Cyanase removal. Inactivation resin has no affinity for any other proteins or reagents.

### Sample Protocol:

Sample resin will settle in tube between uses. It is critical to invert sample resin until consistent 50% slurry is achieved before pipetting. To remove Cyanase, simply add 10 µl of 50% slurry for every 10 U of Cyanase or for every 100 µl of sample, whichever is greater. The sample can then be inverted, pipetted or stirred for 20 minutes to 1 hour at room temperature to provide continuous mixing. The sample is then spun down at 4-5,000 Xg for 5 minutes and the soluble sample removed. Alternatively, less resin can be used if incubated for longer periods of time. As an example, 5 µl of 50% resin can be added for every 10 U of Cyanase if incubated with continuous mixing for 1 hour to overnight. It is recommended that 10 µl of resin always be used for every 100 µl of reaction regardless of Cyanase concentration for optimal effectiveness regardless of incubation time. For samples requiring more than 1 ml of resin slurry, the resin can be packed into a column and the sample passed over the resin at 15 cm/hour or less. The capacity of a packed bed will be on average 10X greater than using the slurry method, and the sample can be passed over the resin multiple times to remove trace contamination. Do not pipette less than 5 µl due to the difficulty in transferring the resin to the reaction in smaller volumes. It is critical that the samples are mixed at a continuous pace either by inverting, stirring, or pipetting so that the resin has time to interact with all of the Cyanase in the reaction. Failure to do so will lead to decreased performance. It is not recommended that the resin be cleaned and reused after binding Cyanase due to the very tight interaction of Cyanase to the resin. Conditions for decoupling can lead to complete deterioration of performance and possible contamination of samples.

**Limited Product Warranty:** RiboSolutions guarantees the product to be active upon receipt for up to 6 months under proper handling and storage. This warranty 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 RiboSolutions. RiboSolutions shall have no liability for any direct,



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