

Certificate of Analysis

Product Name: TaqJump Anti-Taq Antibody

Catalog No.: Y33A2TAQ-200 and Y33A2TAQ-500

Shipping and Storage Condition: Shipping in Dry Ice and storing in -20°C

Shelf Life: 1 year from the date of receipt under proper storage conditions

Description

Biochain's TaqJump Anti-Taq Antibody is a mouse monoclonal antibody specific to Biochain's Taq DNA polymerase. The premise of hot-start PCR is the binding of a Taq antibody to Taq polymerase. When TaqJump Anti-Taq Antibody binds Taq polymerase, the Taq polymerase enzyme activity is inhibited. At high temperature over 90°C, the TaqJump anti-Taq Antibody will be denatured and release its hold on Taq polymerase, and the enzyme will be functional to proceed DNA synthesis. TaqJump Anti-Taq Antibody is effective with a variety of commercially available Taq DNA polymerases as well.

Reagents Required But Not Provided

(Biochain Product Codes have been given where appropriate.)

Taq DNA polymerase, Cat# L7051001 & L7051200

dNTP mix, Cat# K6011105

dNTP set, K6011100

Preparation Instructions

TaqJump Anti-Taq Antibody has been developed to bind to and inactivate Biochain's Taq Polymerase and will function well with commercially available Taq DNA polymerases licensed for use in PCR, using a weight to unit ratio of 1.1:5 (antibody 1.1ug):polymerase (5 unit)). DNA polymerases of species other than *T. aquaticus* are not likely to benefit from use of TaqJump Anti-Taq Antibody. Some genetically altered forms of Taq DNA polymerase may have significantly different specific activities, mutated binding sites, or other factors that may require different molar ratios for optimal results. As a result, it may be necessary to titrate the TaqJump Anti-Taq Antibody relative to the polymerase before starting experimentation.

Components

1. □ Y33A2TAQ-200 200 rxn at 1.1 ug/ul concentration, total 200 ul. □ Y33A2TAQ-500 500 rxn at 1.1 ug/ul concentration, total 500 ul)
2. Dilution Buffer.
3. One of Certificate of Analysis

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY: _____

