

# U-CyTech BV

Yalelaan 48  
3584 CM Utrecht  
The Netherlands  
P +31.30.253 5960  
F +31.30.253 9344  
INFO@ucytech.com  
www.ucytech.com

## Data sheet Rat TNF- $\alpha$ ELISA antibody pair; 20-plate format

Cat. No.: CT704-20

### Coating antibodies (4 vials)

**Product:** Monoclonal antibody to rat tumor necrosis factor alpha (TNF- $\alpha$ )  
**Isotype:** Hamster IgG  
**Production:** *In vitro* using serum free medium  
**Purification:** Ammonium sulphate precipitation and DEAE ion-exchange chromatography  
**Buffer:** Prior to lyophilization: 0.25 ml PBS + 125 mM trehalose  
**Application:** Inject 0.25 ml distilled water into the vial and dilute 100 times in PBS. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 50  $\mu$ l/well).

### Detection antibodies (4 vials)

**Product:** Biotinylated polyclonal antibody to rat tumor necrosis factor alpha (TNF- $\alpha$ )  
**Isotype:** Rabbit IgG  
**Purification:** Ammonium sulphate precipitation, protein A- and ligand-affinity chromatography  
**Labeling:** With Biotin-7-NHS (N-hydroxysuccinimide)  
**Buffer:** Prior to lyophilization: 0.5 ml PBS + 1% BSA + 125 mM trehalose  
**Application:** Inject 0.5 ml distilled water into the vial and dilute 100 times in PBS + 0.5% BSA + 0.05% Tween-20. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 100  $\mu$ l/well).

### Standards (10 vials)

**Product:** CHO-derived recombinant rat tumor necrosis factor alpha (TNF- $\alpha$ )  
**Application:** Cytokine standard in an ELISA system  
**Reconstitution:** Inject 0.5 ml distilled water into the vial. Use immediately.

### Conjugate (4 vials)

**Product:** SPP conjugate (Streptavidin-HRP)  
**Application:** Inject 0.5 ml distilled water into the vial and dilute 100 times in PBS + 0.5% BSA + 0.05% Tween-20. The content of one vial is sufficient for five 96-well ELISA plates (480 determinations; 100  $\mu$ l/well).  
The product should be used in combination with TMB substrate.

### General

**Sensitivity:** 2 pg/ml  
**Specificity:** Validated for detecting natural and recombinant rat TNF- $\alpha$   
**Sterility:** Membrane filtered (0.2  $\mu$ m)  
**Stability:** Lyophilized SPP conjugate is stable for at least one year at -20°C in the dark, the other lyophilized products are stable for at least one year at 4°C.  
After reconstitution, the antibodies are stable for one year at 4°C (if kept sterile) and SPP for minimal one year at -20°C in the dark. The reconstituted standard preparation should be used immediately.  
**References:** Haerter, K. *et al.* 2004. J. Neuroimmun. 146: 126-132  
Teunis, M.A.T. *et al.* 2002. J. Neuroimmun. 133: 30-38  
Vreugdenhil, H.A. *et al.* 2003. Intensive Care Med. 29: 915-922