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Data sheet	Human CD3/CD28 positive control in ELISPOT
Cat. No	CT372
Specificity	To be used as a positive control in human cytokine ELISPOT assays. The product targets the human CD3 and CD28 receptors on the surface of T cells. A variety of different cytokines are induced by this antibody combination including IFN- γ , IL-2, IL-4, IL-5, IL-10 and IL-13.
Application	Reconstitute the lyophilized contents by injecting 500 μ l of sterile distilled water into the vial. Mix the solution gently for approximately 15 seconds and allow to stand at room temperature for 2 minutes. Avoid vigorous shaking. Dilution: 100x in culture medium containing $\geq 10^4$ human PBMC/ml. Add 10 μ l of the stock solution to 990 μ l culture medium containing $\geq 10^4$ human PBMC/ml (50 tests per vial).
Contents	Optimal amount of both human CD3 and CD28 monoclonal antibodies for ELISPOT tests. Buffer prior to lyophilization: 0.5 ml RPMI-1640 with 10% fetal calf serum and 125 mM trehalose. Preservative free.
Sterility	Membrane filtered (0.2 μ m)
Packaging	Clear glass bottle
Storage	The lyophilized product can be safely stored at 2 to 8 $^{\circ}$ C for a certain period of time (expiry date printed on vial). After reconstitution, the product is stable for at least 1 month at 2 to 8 $^{\circ}$ C when stored sterile. However, it is strongly recommended to divide the reconstituted product into small aliquots for single use. When the aliquots are stored at -32 to -18 $^{\circ}$ C, the product is stable for at least 4 years.
General	A white/light pink lyophilized powder. After reconstitution: a clear solution. Do not use if the solution is turbid.
Characteristics monoclonal antibodies	This product consists of 2 monoclonal antibodies: Monoclonal antibody to human CD3 Isotype: mouse IgG _{2a} Purification: ion exchange chromatography Monoclonal antibody to human CD28 Isotype: mouse IgG ₁ Purification: affinity chromatography
Safety	The product is not classified as hazardous according to Regulation (EC) No 1272/2008 and its amendments. Refer to the safety data sheet (SDS) for further information regarding hazards and safe handling practices. The SDS can be found on our website www.ucytech.com/products/additionals .

