

## ***iLite™* TNF-alpha (16 ng/mL)**

(REF: BM3133)

### **Description**

*iLite™* TNF-alpha (16 ng/mL), is a recombinant TNF-alpha, diluted to the appropriate concentration for stimulating *iLite™* TNF-alpha Assay Ready Cells (BM3044).

### **Content**

7 mL of *iLite™* TNF-alpha (16 ng/mL) diluted in RPMI 1640 with 10% heat inactivated fetal bovine serum (FBS).

### **Receipt and storage**

Upon receipt confirm that adequate dry-ice is present and the reagent is frozen. Immediately transfer to -80°C storage.

### **Background**

Tumor necrosis factor alpha (TNF-alpha) promotes inflammatory responses, which, in turn, contribute to the clinical problems associated with many inflammatory disorders, including rheumatoid arthritis, ankylosing spondylitis, Crohn's disease, psoriasis and refractory asthma. These diseases are sometimes treated with TNF-alpha inhibitors, including infliximab, adalimumab, etanercept, certolizumab pegol or golimumab. Prolonged therapies with these TNF-alpha inhibitors may lead to development of neutralizing antibodies (NABs), which may counteract the TNF-alpha antagonist activity of the drugs.

### **Application**

The *iLite™* TNF-alpha (16 ng/mL) can be used for the stimulation of *iLite™* TNF-alpha Assay Ready Cells, to give an optimal signal, according to the below protocols.

Application Notes for the following assays are available:

- Quantification of TNF-alpha blockers using *iLite™* TNF-alpha Assay Ready Cells (E-173-GB)
- Determination of neutralizing antibodies against TNF-alpha blockers using *iLite™* TNF-alpha Assay Ready Cells (E-174-GB)

### **Related products**

REF	Product name
BM3044	<i>iLite™</i> TNF-alpha Assay Ready Cells
BM3132	<i>iLite™</i> Diluent A
BM3134	<i>iLite™</i> Diluent B
BM3135	<i>iLite™</i> Reagent BLANK
BM3136	<i>iLite™</i> Infliximab NAb positive control
BM3139	<i>iLite™</i> Diluent C
BM3159	<i>iLite™</i> Adalimumab NAb positive control
BM3177	<i>iLite™</i> Etanercept NAb positive control

**References** (using this product) Lallemand C, Kavrochorianou A, Steenholdt C, Bendtzen K, Ainsworth MA, Meritet J-F, Blanchard B, Lebon P, Taylor P, Charles P, Alzabin S, Tovey MG. Reporter gene assay for the quantification of the activity and neutralizing antibody response to TNF-alpha antagonists. J Immunol Meth. 2011, 373: 229-239.

**Symbols on label**

	Lot number		Temperature limitation
	Catalogue number		Biohazard
	Use by		Manufacturer

**Precautions**

- For research use only. This product is intended for professional laboratory research use only. The data and results originating from using the product should not be used either in diagnostic procedures or in human therapeutic applications.

- *iLite™* TNF-alpha Assay Ready Cells are a stable transfected cell line of human origin classified as a Class 1 Genetically Modified Microorganism. They should be handled in accordance with EU regulations (90/219/EEC) and disposed of in a licensed contained-use facility in accordance with these regulations. When used in accordance with the manufacturer's product specification, the requirements of EC Directive 90/219/EEC of 23 April 1990 on the contained-use of genetically modified microorganisms are deemed to have been met.

- Residues of chemicals and preparations are generally considered as biohazardous waste, and should be inactivated prior to disposal by autoclaving or using bleach. All such materials should be disposed of in accordance with established safety procedures.

**Propriety information**

In accepting delivery of *iLite™* Assay Ready Cells the recipient agrees not to sub-culture these cells, attempt to sub-culture them or to give them to a third party, and only to use them directly in assays. Biomonitor *iLite™* cell-based products are covered by patents which are the property of Euro Diagnostica AB and any attempt to reproduce the delivered *iLite™* Assay Ready Cells is an infringement of these patents.