**iLite® TNF-alpha Assay Ready Cells**

REF: BM3044

*For research use only. Not for use in diagnostic procedures.*

**DESCRIPTION**

*iLite®* TNF-alpha Assay Ready Cells are a genetically engineered reporter gene cell line of human origin (K562, ATCC® CCL-243), responsive to tumor necrosis factor alpha (TNF-alpha), resulting in the specific expression of Firefly Luciferase. Normalization of cell counts and serum matrix effects is obtained by a second reporter gene, a Renilla Luciferase reporter gene construct, under control of a constitutive promotot.

**CONTENT**

1.5 mL of Assay Ready Cells suspended in RPMI 1640 with 20% heat inactivated fetal bovine serum (FBS), 10% glycerol and 2.5% dimethyl sulfoxide (DMSO).

**RECEIPT AND STORAGE**

Upon receipt confirm that adequate dry-ice is present, and the cells are frozen. Immediately transfer to -80°C storage. Cells should be stored at -80°C *(do not store at any other temperature)* and are stable as supplied until the expiry date shown. Cells should be used within 30 min of thawing and should be diluted immediately after thawing.

**BACKGROUND**

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 Assay Ready Cells can be used for measurements of both anti-TNF-alpha drug activity and presence of anti-TNF-alpha drug NAbs.

Application Notes for the following assays are available:

- Quantification of anti-TNF alpha drug activity (LABEL-DOC-0385)
- Determination of TNF-alpha inhibitor neutralizing antibodies (LABEL-DOC-0386)

**RELATED PRODUCTS**

<table>
<thead>
<tr>
<th>REF</th>
<th>Product name</th>
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<tr>
<td>BM3132</td>
<td>iLite® Diluent A</td>
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<tr>
<td>BM3133</td>
<td>iLite® TNF-alpha (16 ng/mL)</td>
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<tr>
<td>BM3134</td>
<td>iLite® Diluent B</td>
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</table>
PRODUCT SPECIFICATION

BM3135  
**iLite®** Reagent BLANK

BM3136  
**iLite®** Infliximab NAb positive control

BM3139  
**iLite®** Diluent C

BM3159  
**iLite®** Adalimumab NAb positive control

BM3177  
**iLite®** Etanercept NAb positive control

REFERENCES


SYMBOLS ON LABEL

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tr>
<td>LOT</td>
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<td>REF</td>
<td>Catalogue number</td>
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<tr>
<td>♂</td>
<td>Temperature limitation</td>
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<td>☢</td>
<td>Biological risk</td>
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<td>🛠</td>
<td>Use by</td>
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<tr>
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<td>Manufacturer</td>
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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 (2009/41/EC) 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 2009/41/EC on the contained-use of genetically modified microorganisms are deemed to have been met.

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

PROPRIETARY 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. *iLite®* cell-based products are covered by patents which is the property of Svar Life Science AB.
Svar Life Science AB and any attempt to reproduce the delivered iLite® Assay Ready Cells is an infringement of these patents.