



## ***iLite*<sup>®</sup> IFN beta 1a (950 IU/mL)** **(REF: BM3249)**

### **Description**

*iLite*<sup>®</sup> IFN beta 1a (950 IU/mL), is a stock solution of recombinant IFN beta 1a, for use as a stimulator of *iLite*<sup>®</sup> Type I IFN Assay Ready Cells (BM3049), after appropriate dilution.

### **Content**

1.0 mL of *iLite*<sup>®</sup> IFN beta 1a (950 IU/mL) diluted in RPMI 1640 with 10% heat inactivated fetal bovine serum (FBS) and 1% Penicillin Streptomycin. When preparing the IFN beta 1a for use as reference in the assay, please ensure matrix conformity between reference and samples.

### **Receipt and storage**

Upon receipt confirm that adequate dry-ice is present and that the reagent is frozen. Immediately transfer to -80°C storage (**do not store at any other temperature**).

### **Background**

Interferon beta (IFN $\beta$ ) is well established as first line therapy in relapsing/remitting multiple sclerosis. The occurrence of NAbs and binding antibodies (BAbs) to IFN $\beta$  has been widely reported. Subjects with NAbs have shown reduced response to treatment with IFN $\beta$ , having higher relapse rates, increased MRI activity and higher risk of disease progression. The frequencies and titers of NAbs vary depending on the preparation used, dose and frequency of administration and also the assay used to quantify them.

### **Application**

The *iLite*<sup>®</sup> IFN beta 1a (950 IU/mL) can be used for the stimulation of *iLite* Type I IFN Assay Ready Cells according to the below Application Notes. Ensure matrix conformity between reference and samples when preparing the IFN beta 1a for use as reference in the assay.

Application Notes for the following assays and determinations are available:

- Quantification of IFN  $\alpha$  or  $\beta$  (E-176-GB)
- Measurement of anti-IFN  $\alpha$  or  $\beta$  antibodies (NAbs) (E-175-GB)

### **Related products**

<b>REF</b>	<b>Product name</b>
BM3049	<i>iLite</i> <sup>®</sup> Type I IFN Assay Ready Cells
BM3250	<i>iLite</i> <sup>®</sup> Diluent D
BM3251	<i>iLite</i> <sup>®</sup> IFN beta 1a NAb positive control

### **References**

Hermanrud C, Ryner M, Luft T, Jensen PE, Ingenhoven K, Rat D, Deisenhammer F, Sørensen PS, Pallardy M, Sikkema D, Bertotti E, Kramer D, Creeke P, Fogdell-Hahn A, on behalf of the ABIRISK consortium: Development and validation of cell-based luciferase reporter gene assays for measuring neutralizing anti-drug antibodies against interferon beta. J Immunol Methods, 430: 1-9 (2016)

### 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.
- The product contains human/bovine serum and if human serum is analysed it should be handled as if capable of transmitting infectious agents.
- 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.