LTB_4 ELISA kit

Ultrasensitive, well-validated LTB4 ELISA kit for inflammation research

The LTB_4 EIA kit is a colorimetric competitive enzyme immunoassay kit with results in 4 hours. Absorbance is read at 405 nm. Assay up to 39 samples in duplicate with a broad dynamic range that is suitable for a wide variety of sample matrices. Document your results to scientists world-wide with this highly cited kit.

Leukotrienes are major products of 5-lipoxygenase metabolism of arachidonic acid. Leukotriene B_4 (LTB_4) stimulates leukocyte functions including lysosomal enzyme release, adhesion, and aggregation of polymorphonuclear leukocytes. LTB_4 has been implicated as a potent mediator of inflammatory diseases and immunoregulation. The cysteinyl leukotrienes (LTC_4, LTD_4, and LTE_4) are formed by addition of cysteine derivatives to LTA_4. The conversion of LTA_4 to LTC_4 by the enzyme LTC_4 synthase limits the rate of cysteinyl leukotriene formation. Cysteinyl leukotrienes are potent lipid mediators in inflammation, inducing smooth muscle contractions and increased capillary permeability.

Citations: 55 View Online »

Ordering Information

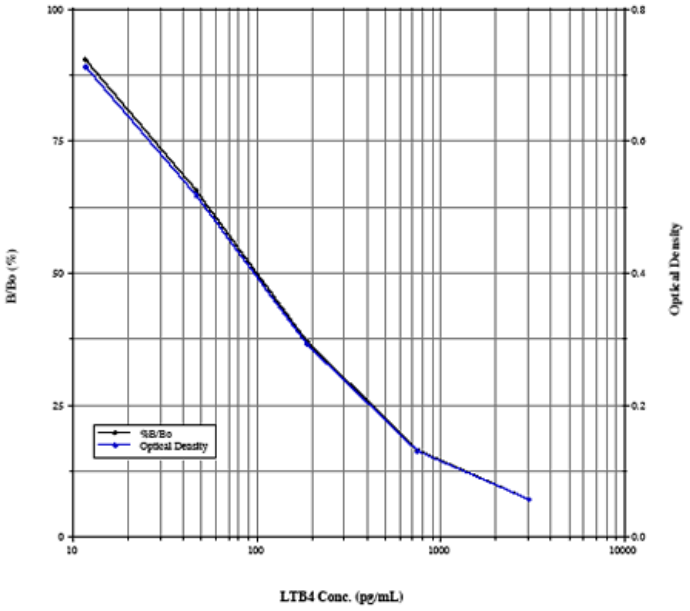
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ADI-900-068	96 wells

Manuals, SDS & CofA

View Online »

- Ultrasensitive measurement of LTB_4, detecting as little as 5.63 pg/ml
- Widely cited in numerous peer-reviewed publications
- Broad dynamic range suitable for a large variety of samples
- High throughput format with results in 4 hours for up to 39 samples in duplicate
- Highly reproducible results day-after-day and lot-after-lot
- Fully quantitative results that surpass semi-quantitaive Western blot analysis


100
75
50
25
0
0.8
0.6
0.4
0.2
0.0
B/Bo (%)
Optical Density
%B/Bo
Optical Density
10
100
1000
10000
LTB4 Conc. (pg/mL)

Handling & Storage

Use/Stability	Store all components at +4°C, except conjugate at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Leukotriene B4
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of LTB_4 in culture supernatants, plasma, saliva, and urine from any species. Cited sample types include bronchioalveolar lavage fluid, cell lysate, crevicular fluid, tissue, serum and whole blood.
Assay Time	4 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Sensitivity	5.63 pg/ml (range 11.7 – 3,000 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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