LIONEX Diagnostics and Therapeutics

PRODUCT CATALOGUE

2025

ALL PROTEINS OF LIONEX ARE SUPPLIED TO PARTNERS ON COLLABORATIVE, NO-PROFIT BASIS FOR RESEARCH USE ONLY, NO COMERCIAL ACTIVITY IS ALLOWED

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Required information for your order:

- Complete invoice and delivery address
- For orders from the EU: VAT-ID
- Contact name of the recipient with phone number & E-Mail address
- Customer number (if available)
- Article number & article name
- Package size & quantity of the ordered article

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1. EndoTrap® Family

1.1. EndoTrap® red Products

Art. No.	Article Name	Description	Price (€)
LET0001	**EndoTrap® red 1/1**	Kit contains: EndoTrap® red 5x Equilibration Buffer 1 x 25 mL EndoTrap® red 5x Regeneration Buffer 1 x 25 mL EndoTrap® red Column 1 x 1 mL	**315,00**
LET0002	**EndoTrap® red 5/1**	Kit contains: EndoTrap® red 5x Equilibration Buffer 1 x 125 mL EndoTrap® red 5x Regeneration Buffer 1 x 125 mL EndoTrap® red Column 5 x 1 mL	**789,00**
LET0033	**EndoTrap® red 5**	5 ml settled resin (50% slurry)	**560,00**
LET0003	**EndoTrap® red 10**	10 ml settled resin (50% slurry)	**1.090,00**
LET0004	**EndoTrap® red 50**	50 ml settled resin (50% slurry)	**5.300,00**
LET0066	**EndoTrap® red 250**	250 ml settled resin (50% slurry)	**24.700,00**
LET0034	**EndoTrap® red Column 1 mL**	The column contains 1 mL resin (filled up with buffer)	**170,00**
LET0032	**EndoTrap® red Buffer Kit**	1 Buffer Kit is sufficient for 5 mL resin (EndoTrap® HD 5) Kit contains: EndoTrap® red 5x Equilibration Buffer 1 x 125 mL EndoTrap® red 5x Regeneration Buffer 1 x 125 mL	**399,00**
LET0007	**EndoTrap® red 5x Equilibration Buffer, 125 mL**		**265,00**
LET0008	**EndoTrap® red 5x Regeneration Buffer, 125 mL**		**265,00**

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1. EndoTrap® Family

1.2. EndoTrap® HD Products

Art. No.	Article Name	Description	Price (€)
LET0009	**EndoTrap® HD 1/1**	Kit contains: EndoTrap® HD 5x Equilibration Buffer 1 x 25 mL EndoTrap® HD 5x Regeneration Buffer 1 x 25 mL EndoTrap® HD 5x Storage Buffer 1 x 25 mL EndoTrap® HD Column 1 x 1 mL	**315,00**
LET0010	**EndoTrap® HD 5/1**	Kit contains: EndoTrap® HD 5x Equilibration Buffer 1 x 125 mL EndoTrap® HD 5x Regeneration Buffer 1 x 125 mL EndoTrap® HD 5x Storage Buffer 1 x 125 mL EndoTrap® HD Column 5 x 1 mL	**789,00**
LET0035	**EndoTrap® HD Column 1 mL**	The column contains 1 mL of resin filled up with buffer	**165,00**
LET-HD-FPLC5ML	**EndoTrap® HD FPLC Column 5 mL**	The column contains 5 mL of resin filled up with buffer (This item is still available in remaining stock, but will be replaced by article LET0067 in the future)	**890,00**
LET0067	**EndoTrap® HD FPLC Column 5 mL – 17 x 35 mm**	The column contains 5 mL of resin filled up with buffer (LET0067 will replace our old format LET-HD-FPLC5ML)	**895,00**
LET0068	**EndoTrap® HD FPLC Column 1 mL – 8 x 35 mm**	The column contains 1 mL of resin filled up with buffer	**250,00**
LET0023	**EndoTrap® HD 5**	5 mL settled resin (50% slurry)	**545,00**
LET0011	**EndoTrap® HD 10**	10 mL settled resin (50% slurry)	**1.065,00**
LET0012	**EndoTrap® HD 50**	50 mL settled resin (50% slurry)	**5.255,00**
LET0013	**EndoTrap® HD 250**	250 mL settled resin (50% slurry)	**24560,00**
LET0014	**EndoTrap® HD Leakage ELISA**	Kit components: EndoTrap® Leakage ELISA coated MTP (96 well plate) EndoTrap® Leakage ELISA ABTS Substrate (20 mL) EndoTrap® Leakage ELISA POD-Antibody (1 bottle) EndoTrap® Leakage ELISA Standard (1 bottle)	**890,00**
LET0031	**EndoTrap® HD Buffer Kit**	1 Buffer Kit is sufficient for 5 mL resin (EndoTrap® HD 5) Kit contains: EndoTrap® HD 5x Equilibration Buffer 1 x 125 mL EndoTrap® HD 5x Regeneration Buffer 1 x 125 mL EndoTrap® HD 5x Storage Buffer 1 x 125 mL	**615,00**

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1. EndoTrap® Family

1.2. EndoTrap® HD Products

Art. No.	Article Name	Description	Price (€)
LET0015	EndoTrap® HD 5x Equilibration Buffer, 125 mL		285,00
LET0016	EndoTrap® HD 5x Regeneration Buffer, 125 mL		285,00
LET0017	EndoTrap® HD 5x Storage Buffer, 125 mL		285,00

1.3. EndoGrade® Ovalbumin

Art. No.	Article Name	Description	Price (€)
LET0027	EndoGrade® Ovalbumin, 25 mg	EndoGrade® Ovalbumin, lyophilized, salt-free	435,00
LET0028	EndoGrade® Ovalbumin, 100 mg	EndoGrade® Ovalbumin, lyophilized, salt-free = 4 x EndoGrade® Ovalbumin, 25 mg (LET0027)	1.545,00
LET0029	EndoGrade® Ovalbumin, 1000 mg	EndoGrade® Ovalbumin, lyophilized, salt-free = 40 x EndoGrade® Ovalbumin, 25 mg (LET0027)	15.190,00

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1. EndoTrap® Family

1.4. EndoGrade® Water

Art. No.	Article Name	Description	Price (€)
LET0036	**EndoGrade® Water, 50 mL, 1 bottle**		**8,50**
LET0037	**EndoGrade® Water, 100 mL, 1 bottle**		**10,50**
LET0038	**EndoGrade® Water, 500 mL, 1 bottle**		**15,50**
LET0022	**EndoGrade® Water, 50 mL, 30 bottles per pack**	1 PU = 30 bottles EndoGrade® water, 100 mL (LET0036)	**220,00**
LET0024	**EndoGrade® Water, 100 mL, 30 bottles per pack**	1 PU = 30 bottles EndoGrade® water, 100 mL (LET0037)	**275,00**
LET0025	**EndoGrade® Water, 500 mL, 12 bottles per pack**	1 PU = 12 bottles EndoGrade® water, 500 mL (LET0038)	**180,00**

1.5. EndoTrap®/ EndoGrade® Equipment

Art. No.	Article Name	Description	Price (€)
LET0019	**Empty Columns Large (pack of 5)**	pack of 5 Empty Columns Large	**45,00**
LET0020	**Empty Columns Small (pack of 5)**	pack of 5 Empty Columns Small	**55,00**
LET0018	**Disposable Polypropylene Funnel (pack of 5)**	pack of 5 Disposable Polypropylene Funnel	**45,00**
LET0021	**Endo Grade® Glass Test Tubes**	112 endotoxin-free borosilicate glass test tubes with aluminium screw cap, capacity 5 mL, height 50 mm	**480,00**

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2. ELISA Kits - In-Vitro Diagnostic (IVD)

2.1. Human tuberculosis

Art. No.	Article Name	Description	Price (€)
LIO-Feron 01_1	**LIOFeron® TB/LTBI - HUMAN BLOOD STIMULATION TUBES (4 Tubes = 1 Patient)**	for 1 test 1 x PC (Positive Control) 1 x NC (Negative Control) 1 x TB A (TB antigen A) 1 x TB B (TB antigen B)	**70,00**
LIO-Feron 01_22	**LIOFeron® TB/LTBI - HUMAN BLOOD STIMULATION TUBES**	for 22 tests 22 x PC (Positive Control) 22 x NC (Negative Control) 22 x TB A (TB antigen A) 22 x TB B (TB antigen B)	**225,00**
LIO-Feron 02_22	**LIOFeron TB/LTBI - HUMAN IFN-y ELISA**	for 22 tests 1 x MTP Microtiter plate (12 x 8 well strips) 2 x STA IFN-y Standard 1 x DET Detection Antibody Solution 1 x CON Conjugate Solution 1 x TMB Substrate Solution 1 x STO Stop Solution 1 x WB Wash Buffer, Concentrate 1 x IB Incubation Buffer	**410,00**
LIO-Feron 02_44	**LIOFeron TB/LTBI - HUMAN IFN-y ELISA**	for 44 tests 2 x MTP Microtiter plate (12 x 8 well strips) 3 x STA IFN-y Standard 1 x DET Detection Antibody Solution 1 x CON Conjugate Solution 1 x TMB Substrate Solution 1 x STO Stop Solution 2 x WB Wash Buffer, Concentrate 1 x IB Incubation Buffer	**565,00**

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3. Rapid Tests - In-Vitro Diagnostics (IVD)

3.1. Human tuberculosis

Art. No.	Article Name	Description	Price (€)
3010_DE	**LIODetect® TB-ST Tuberkulose Schnelltest (DE)**	10 tests +1 dropper vial PZN: 14184587	**Standard price (for doctors):** **45,00 €** **Pharmacist price:** **41,00 €** **Wholesale price:** **36,00 €**
3010_EN	**LIODetect® TB-ST Tuberculosis Rapid Test (EN)**	10 tests +1 dropper vial PZN: 14184587	**Standard price (for doctors):** **45,00 €** **Pharmacist price:** **41,00 €** **Wholesale price:** **36,00 €**

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4. ELISA Kits - Research Use Only (RUO)

4.1. Human tuberculosis

Art. No.	Article Name	Description	Price (€)
LIO-TUB01	**Tuberculosis IgG ELISA**	Enzyme Immunoassay for the detection of human IgG antibodies to *M. tuberculosis* in serum or plasma. 96 determinations.	**295,00**
LIO-TUB02	**Tuberculosis IgA ELISA**	Enzyme Immunoassay for the detection of human IgA antibodies to *M. tuberculosis* in serum or plasma. 96 determinations.	**295,00**
LIO-TUB03	**Tuberculosis IgM ELISA**	Enzyme Immunoassay for the detection of human IgM antibodies to *M. tuberculosis* in serum or plasma. 96 determinations.	**295,00**

4.2. For the detection of animal antibodies against mycobacterial antigens

Art. No.	Article Name	Description	Price (€)
LIO-TUB06	**BOVINE Tuberculosis ELISA**	BOVINE Tuberculosis ELISA contains 1 microtiter plate with 96 wells. Serological ELISA test kit with ready-to-use components. Detection of bovine antibodies against *M. bovis* antigens in serum and plasma.	**225,00**
LIO-TUB06B	**BOVINE Tuberculosis ELISA**	BOVINE Tuberculosis ELISA contains 2 microtiter plates with 96 wells each. Serological ELISA test kit with ready-to-use components. Detection of bovine antibodies against *M. bovis* antigens in serum and plasma.	**280,00**

5. Rapid Tests - Research Use Only (RUO)

5.1. Bovine tuberculosis

Art. No.	Article Name	Description	Price (€)
2010	**Animal TB Rapid - Tuberculosis Rapid Test**	For 10 determinations. For detecting antibodies against *M. bovis* in serum or plasma.	**32,00**

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6. Recombinant** Proteins - Research Use Only (RUO)

6.1. Recombinant** Proteins from Mycobacteria

All proteins are offered without determination of the endotoxin content.
If you need a determination of the endotoxin content, you can order this additionally (Art. No. LEM0001 /LEM0002).
If you need endotoxin removal for the proteins you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0001.4	**HSP60.1 recombinant protein, 500 µg, soluble**	Recombinant HSP60.1 protein of *M. tuberculosis* Alternative names: Rv3417c, CPN60.1, 60 kDa Chaperonin 1, GROEL 1	**610,00**
LRP-0002.4	**HSP65 recombinant protein, 500 µg, soluble**	Recombinant HSP65 protein of *M. bovis* Alternative names: 60 kDa Chaperonin 2 GROEL2 (Protein CPN60-2) (GROEL Protein 2) (65 kDa antigen) (Heat Shock Protein 65) (Cell Wall Protein A) (Antigen A)	**610,00**
LRP-0003.4	**HSP70 recombinant protein, 500 µg, soluble**	Recombinant HSP70 protein of *M. tuberculosis* Alternative names: Rv0350, DnaK homologue, CP70, 70 kDa antigen	**610,00**
LRP-0004.4	**85A recombinant protein, 500 µg, soluble**	Recombinant 85A protein of *M. tuberculosis* Alternative names: Rv3804c, FbpA, secreted antigen 85-A, antigen 85 complex A, Mycolyl transferase 85A, Fibronectin-binding protein A	**610,00**
LRP-0005.2	**85B recombinant protein, 500 µg, soluble**	Recombinant 85B protein of *M. tuberculosis* Alternative names: Rv1886c, FbpB, secreted antigen 85-B, antigen 85 complex B, Mycolyl transferase 85B, Fibronectin-binding protein B, Extracellular alpha-antigen	**610,00**
LRP-0006.2	**MPT51 recombinant protein, 500 µg, soluble**	Recombinant MPT51 protein of *M. tuberculosis* Alternative names: Rv3803c protein, secreted MPT51/MPB51 antigen, protein FbpD (FbpC1), antigen 85 complex C, Fibronectin-binding protein C, Member of Antigen 85 Complex of *M. tuberculosis*	**610,00**
LRP-0007.4	**MPB70 recombinant protein, 500 µg, soluble**	Recombinant MPB70 protein of *M. bovis* Alternative names: Mb2900	**610,00**
LRP-0008.4	**MPB83 recombinant protein, 500 µg, soluble**	Recombinant MPB83 protein of *M. bovis* Alternative names: -	**610,00**

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The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0008N.4	**MPB83N recombinant protein, 500 µg, soluble**	Recombinant MPB83N protein of *M. bovis* Alternative names: Mb2898	**610,00**
LRP-0009ms.4	**MPT64 recombinant protein, 500 µg, soluble**	Recombinant MPT64 protein of *M. tuberculosis* Alternative names: Rv1980c, MPB64	**610,00**
LRP-0011.5	**PstS1 recombinant protein, 500 µg, soluble**	Recombinant PstS1 protein of *M. tuberculosis* Alternative names: Rv0934, PBP-1, 38 kDa antigen, PhoS, PhoS homologue (1)	**610,00**
LRP-0015.4	**GlnA1 recombinant protein, 500 µg, soluble**	Recombinant GlnA1 protein of *M. tuberculosis* Alternative names: Rv2220	**610,00**
LRP-0016.4	**CFP10 recombinant protein, 500 µg, soluble**	Recombinant CFP10 protein of *M. tuberculosis* Alternative names: Rv3874, Lhp	**610,00**
LRP-0017.4	**ESAT6 recombinant protein, 500 µg, soluble**	Recombinant ESAT6 protein of *M. tuberculosis* Alternative names: Rv3875, 6 kDa early secretory antigenic target Esat6	**610,00**
LRP-0018.4	**Rv3019c recombinant protein, 500 µg, soluble**	Recombinant Rv3019c protein of *M. tuberculosis* Alternative names: TB10.3, ES6_9	**610,00**
LRP-0019C.5	**16 kDa recombinant protein, 500 µg, soluble**	Recombinant 16 kDa protein of *M. tuberculosis* Alternative names: Rv2031c, 14 kDa antigen, 16 kDa antigen, HSP16.3, acr, hspX	**610,00**
LRP-0019ms.2	**16 kDa recombinant protein, 500 µg, soluble**	Recombinant 16 kDa protein of *M. tuberculosis* Alternative names: Rv2031c, 14 kDa antigen, 16 kDa antigen, HSP16.3, acr, hspX Source: The recombinant protein with C-terminal his tag was expressed in *M. smegmatis*	**610,00**
LRP-0020.4	**Rv0251c recombinant protein, 500 µg soluble**	Recombinant Rv0251c protein of *M. tuberculosis* Alternative names: Acr2, HrpA, Hsp 20	**610,00**

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6. Recombinant** Proteins - Research Use Only (RUO)

6.1. Recombinant** Proteins from Mycobacteria

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If you need endotoxin removal for the proteins you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0021.3	**PstS3 recombinant protein, 500 µg, soluble**	Recombinant PstS3 protein of *M. tuberculosis* Alternative names: Periplasmatic phosphate binding PstS3 lipoprotein of *M. tuberculosis*, Rv0928, PBP-3, PHOS1	**610,00**
LRP-0022.5	**AlaDH recombinant protein, 500 µg, soluble**	Recombinant AlaDH protein of *M. tuberculosis* Alternative names: 240 kDa recombinant protein	**920,00**
LRP-0024.2	**19 kDa recombinant protein, 500 µg, soluble**	Recombinant 19 kDa protein of *M. tuberculosis* Alternative names: Rv3763	**610,00**
LRP-0027.5	**Tpx recombinant protein, 500 µg, soluble**	Recombinant Tpx protein of *M. tuberculosis* Alternative names: Rv1932, CFP20	**610,00**
LRP-0029.2	**Rv2626c recombinant protein, 250 µg, soluble**	Recombinant Rv2626c protein of *M. tuberculosis* Alternative names: Hrp1	**460,00**
LRP-0046.2	**CFP21 recombinant protein, 500 µg, soluble**	Recombinant CFP21 protein of *M. tuberculosis* Alternative names: Rv1984c	**610,00**
LRP-0047.2	**Rv1986 recombinant protein, 500 µg, soluble**	Recombinant Rv1986 protein of *M. tuberculosis* Alternative names: Rv1986	**610,00**
LRP-0053.2	**Rv3615c, recombinant protein, 500 µg, soluble**	recombinant Rv3615c protein of *M. tuberculosis* Alternative names: -	**610,00**

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6. Recombinant** Proteins - Research Use Only (RUO)

6.1. Recombinant** Proteins from Mycobacteria

All proteins are offered without determination of the endotoxin content.
If you need a determination of the endotoxin content, you can order this additionally (Art. No. LEM0001 /LEM0002).
If you need endotoxin removal for the proteins you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0061.4	**Rv0288 recombinant protein, 500 µg, soluble**	Recombinant Rv0288 protein of *M. tuberculosis* Alternative names: -	**610,00**
LRP-0062.3	**Rv3020c rec. protein, 500 µg, soluble**	Recombinant Rv3020c protein of *M. tuberculosis* Alternative names: -	**610,00**
LRP-0089.2	**MPT63 recombinant protein, 500 µg, soluble**	Recombinant MPT63 protein of *M. tuberculosis* Alternative names: Rv1926c	**610,00**
LRP-0113.2	**TB7.7 recombinant protein, 500 µg, soluble**	Recombinant TB7.7 protein of *M. tuberculosis* Alternative names: Rv2654c	**610,00**
LRP-0116.2	**Rv1789 recombinant protein, 500 µg, soluble**	Recombinant Rv1789 protein of *M. tuberculosis* Alternative names: -	**610,00**
LRP-0117.2	**Rv3478 recombinant protein, 500 µg, soluble**	Recombinant Rv3478 protein of *M. tuberculosis* Alternative names: -	**610,00**
LRP-0118.2	**Rv3810 recombinant protein, 500 µg, soluble**	Recombinant Rv3810 protein of *M. tuberculosis* Alternative names: -	**610,00**

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6. Recombinant** Proteins - Research Use Only (RUO)

6.1. Recombinant** Proteins from Mycobacteria

All proteins are offered without determination of the endotoxin content.
If you need a determination of the endotoxin content, you can order this additionally (Art. No. LEM0001 /LEM0002).
If you need endotoxin removal for the proteins you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0121.2	**Rv3620 recombinant protein, 500 µg, soluble**	Recombinant Rv3620 protein of *M. tuberculosis* Alternative names: -	**610,00**
LRP-0122.2	**Rv0287 recombinant protein, 500 µg, soluble**	Recombinant Rv0287 protein of *M. tuberculosis* Alternative names: -	**610,00**

6.2. Recombinant** Fusion Proteins from Mycobacteria

All proteins are offered without determination of the endotoxin content.
If you need a determination of the endotoxin content, you can order this additionally (Art. No. LEM0001 /LEM0002).
If you need endotoxin removal for the proteins you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
LRP-0073.2	**CEH (CFP10-ESAT6 fusion protein), 500 µg, soluble**	Recombinant CFP10-ESAT6 fusion protein of *M. tuberculosis* Alternative names: -	**840,00**
LRP-0074.2	**ECH (ESAT6-CFP10 fusion protein), 500 µg, soluble**	Recombinant Esat6-CFP10 fusion protein of *M. tuberculosis* Alternative names: -	**860,00**
LRP-0097.2	**FP1b recombinant protein, 500 µg, soluble**	Recombinant FP1b protein of *M. tuberculosis* Alternative names: -	**860,00**
LRP-0099.2	**Tetra-fusion recombinant protein, 500 µg, soluble**	Recombinant Tetra-fusion protein of *M. tuberculosis* Alternative names: -	**860,00**

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7. Antigen Cocktails**- Research Use Only (RUO)

All protein cocktails are offered without determination of the endotoxin content.
If you need a determination of the endotoxin content, you can order this additionally (Art. No. LEM0001 /LEM0002).
If you need endotoxin removal for the protein cocktails you ordered, you can order this additionally (Art. No. LEE0008).
The corresponding service is also listed in the tables of the catalogue.

Art. No.	Article Name	Description	Price (€)
ImCo3	**Antigen Cocktail ImCo3, 200 µg, soluble**		**495,00**
LRP-0133.5	**Esat6-CFP10-Cocktail, 500 µg, soluble**		**1.215,00**
BTBC01.1	**Bovine TB Cocktail 01, 1 mg soluble**		**1.215,00**

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8. Endotoxin Determination / Removal

Art. No.	Article Name	Description	Price (€)
LEM0001	**determination of the endotoxin content – express service**	measuring of endotoxin content (required sample volume: 200 µL) express service: measuring of endotoxin content within 2 working days after receipt of sample	**215,00**
LEM0002	**determination of the endotoxin content – standard service**	measuring of endotoxin content (required sample volume: 200 µL) standard service: measuring of endotoxin content within 7 working days after receipt of sample	**190,00**
LEE0008	**Endotoxin removal – 1 sample - < 100 EU/mg**	result of Endotoxin removal: < 100 EU/mg The endotoxin removal includes the following steps: 1. protein determination of sample before endotoxin removal 2. endotoxin determination of sample before endotoxin removal 3. endotoxin removal 4. endotoxin determination of sample after endotoxin removal 5. protein determination of sample after endotoxin removal 6. SDS-PAGE of sample after endotoxin removal 7. Return of sample - standard shipping with FedEx (on customer request, the return can also be done by express or refrigerated shipping, the cost of shipping carries the recipient / customer) requirement for endotoxin removal: A maximum of 10 mg protein can be added to a 1 mL column. The minimum protein concentration should be 500 µg/mL. It should be noted that some proteins may bind to the column material, resulting in the loss of the protein. LIONEX GmbH does not guarantee this. For this reason, it is recommended to have a preliminary test with a small sample volume before endotoxin removal (article number LEE0010, article name: endotoxin removal - pretest).	**2690,00**
LEE0010	**Endotoxin removal - pretest**	for pretest needed material: approx. 1 mg protein see description for LEE0008 It should be noted that some proteins may bind to the column material, resulting in the loss of the protein. LIONEX GmbH does not guarantee this.	**1290,00**

9. Antibodies - Research Use Only (RUO)

9.1. Antibodies for detection of mycobacterial proteins

Antibodies are also available on request for some of our mycobacterial antigens.
If you are interested in the antibodies, please contact us to find out whether they are available.

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