

PULMONARY DISEASES

Immunoassays



HUMAN SURFACTANT PROTEIN A ELISA

Cat. No.: RD191139200R

RUO

Intended use

The RD191139200R Human Surfactant Protein A ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human surfactant protein A in serum, plasma (citrate, heparin), bronchoalveolar lavage fluid and amniotic fluid.

- The total assay time is less than 4 hours
- The kit measures surfactant protein A in serum, plasma (citrate, heparin), bronchoalveolar lavage fluid and amniotic fluid
- Assay format is 96 wells
- Quality Controls are human serum based. No animal sera are used
- Standard is native protein based
- Components of the kit are provided ready to use, concentrated or lyophilized

Clinical application

- Immune response, infection and inflammation
- Pulmonary Disease

Immunoassays

Test principle

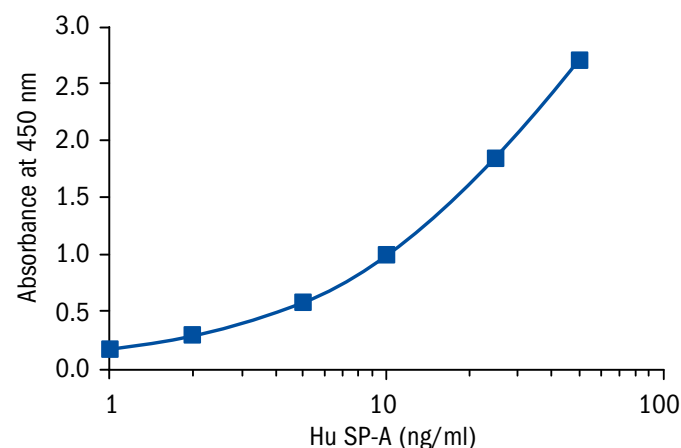
In the BioVendor Human Surfactant Protein A (SP-A) ELISA, standards, quality controls and samples are incubated in microplate wells pre-coated with monoclonal anti-human SP-A antibody. After 2 hours incubation at 37°C and washing, biotin labelled polyclonal anti-human SP-A antibody is added to the wells and incubated for 60 minutes with captured surfactant protein A. After another washing, streptavidin-HRP conjugate is added. After 30 minutes incubation and the last washing

step, the remaining conjugate is allowed to react with the substrate solution (TMB). The reaction is stopped by addition of acidic solution and absorbance of the resulting yellow product is measured. The absorbance is proportional to the concentration of SP-A. A standard curve is constructed by plotting absorbance values against concentrations of standards, and concentrations of unknown samples are determined using this standard curve.

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Assay format	Sandwich ELISA, biotin-labelled antibody, 96 wells/kit
Samples	Amniotic fluid, Bronchoalveolar lavage fluid, Plasma (citrate, heparin), Serum
Controls	QC-Low, QC-High
Standards	1-50 ng/ml
Limit of detection	0.16 ng/ml



Summary of protocol

- Reconstitute QCs and Master Standard and prepare set of standards
- Dilute Samples 10×
- Add 100 µl Standards, QCs and samples
- Incubate at 37°C for 2 hours/no shaking
- Wash plate 3 times
- Add 100 µl Biotin Labelled Antibody solution
- Incubate at RT for 1 hour/300 rpm
- Wash plate 3 times
- Add 100 µl Streptavidin-HRP Conjugate
- Incubate at RT for 30 min/300 rpm
- Wash plate 3 times
- Add 100 µl Substrate Solution
- Incubate at RT for 10 min
- Add 100 µl Stop Solution
- Read absorbance and calculate results

Related products

- Surfactant Protein D Human ELISA RD194059101
- Clara Cell Protein Human ELISA RD191022200

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