



KL-6 is used for the measurement of sialylated carbohydrate antigen concentration in monitoring **Interstitial Lung Disease.**

METHOD: LATEX AGGLUTINATION TURBIDIMETRIC

FEATURES:

Nanopia KL-6 Reagent

KL-6 is a sialylated carbohydrate antigen that was detected by Kohno et al. in 1985. It is a high molecular weight glycoprotein that is expressed by type II alveolar epithelial cells and is a mucin which belongs to MUC-1 in cluster 9.^{1,2,4} It has been confirmed that the serum KL-6 level is significantly higher in patients with interstitial pneumonia than in healthy volunteers or patients with other respiratory diseases, and it has been shown by ROC analysis that serum KL-6 is a diagnostically useful indicator.³ In addition, because serum KL-6 Levels are significantly higher in patients with active interstitial pneumonia than in patients with inactive pneumonia, serum KL-6 is considered to be useful for assessing disease activity. Furthermore, it has been noted that this parameter changes according to the pathology of interstitial pneumonia during follow-up.³

- ✓ Liquid, ready to use
- ✓ Serum and plasma are acceptable sample types
- ✓ Automated assay

BENEFITS:

- ✓ Applicable to multiple chemistry analyzers
- ✓ Useful for assessing disease activity

| ORDERING INFORMATION | CONFIGURATION | CATALOG NUMBER |
|---|--|----------------|
| <input type="radio"/> NANOPIA KL-6 REAGENT 1 | 2 X 24 mL | ES336904 |
| <input type="radio"/> NANOPIA KL-6 REAGENT 2 | 2 X 8 mL | ES336911 |
| <input type="radio"/> NANOPIA KL-6 CALIBRATOR | 4 LEVELS X 0.5 mL | ES336928 |
| <input type="radio"/> NANOPIA E CONTROL (LEVEL 1,2) | LEVEL 1 - 3 X 1 mL LEVEL 2 - 3 X 1 mL | SC305573 |



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PERFORMANCE CHARACTERISTICS

| | |
|--|---|
| PRECISION | Within Precision: $\leq 1.4\%$ |
| ACCURACY | <p>Eitest KL-6 (ELISA) Slope: 0.99 Intercept: -5.9 U/mL Correlation Coefficient: 0.981</p> <p>Picolumi KL-6 (Chemiluminescent assay) Slope: 0.96 Intercept: 7.1 U/mL Correlation Coefficient: 0.986</p> |
| The performance of this method (y) on a Roche/Hitachi 917 analyzer was compared with the performance of Eitest KL-6 and Picolumi KL-6. | |
| LINEARITY | 50-5000 U/mL |
| NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED | <p>Intralipos: 5% Hemoglobin: 500 mg/mL (77.5 μmol/L) Conjugated Bilirubin: 20 mg/dL (342 μmol/L) Unconjugated Bilirubin: 20 mg/dL (342 μmol/L) Formazin turbidity: 2000 units Rheumatoid factor: 500 IU/mL</p> |
| REFERENCE RANGE⁽³⁾ | 105.3 - 401.2 U/mL |

(1) Kohno N. Med J, Hiroshima Univ, 33, 971:1985.
 (2) Kohno N. Respiration, 16, 391:1997.
 (3) Kohno N., et al. Japan J Clin Exper Med, 75, 217:1998.
 (4) Hirasawa Y. et. al. Am J Resp Cell and Mol Biol, 17, 501: 1997.

Product not available in the USA

NOTES:



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