RESEARCH REAGENTS

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

METHOD: LATEX AGGLUTINATION TURBIDIMETRIC

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 subjects with interstitial pneumonia than in healthy volunteers or subjects 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 subjects with active interstitial pneumonia than in subjects 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]

FEATURES:

- 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
•Nanopia KL-6 Reagent 1	Reagent 1 (2 x 24 mL)	466175
•Nanopia KL-6 Reagent 2	Reagent 2 (2 x 8 mL)	466199
•Nanopia KL-6 Calibrator	1 ml x 4 levels	536519
•Nanopia KL-6 Control (Level 1 &2)	2 levels, 3 x 1 mL each level	516214

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Ilex Life Sciences LLC
1465 Sand Hill Rd, Suite 2018
Candler, NC 28715
www.ilexlife.com
828-531-9949
info@ilexlife.com

MANUFACTURER
Sekisui Medical CO., LTD
1-3, Nihonbashi 2-chome, Cuo-ku Tokyo, 103-0027, JAPAN

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PERFORMANCE CHARACTERISTICS

PRECISION	Within Precision: ≤1.4%
ACCURACY 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.	Eitest KL- 6 (ELISA) Slope: 0.99 Intercept: -5.9 U/mL Correlation Coefficient: 0.981 Picolumi KL-6 (Chemiluminescent assay) Slope: 0.96 Intercept: 7.1 U/mL Correlation Coefficient: 0.986
LINEARITY	50-5000 U/mL
NO SIGNIFICANT INTERFERENCES UP TO LEVELS INDICATED	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
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.

NOTES:

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