

Alcian Blue stain kit (for cartilage tissue) [pH 2.5]

Alcian blue is a copper-titanium cyanine conjugate dye that was originally used for textile fiber dyeing. This cationic dye combines with acidic groups, that is, Alcian blue forms an insoluble complex with anionic groups such as carboxyl and sulfate groups contained in tissues. Alcian blue is composed of a central copper-containing phthalocyanine ring connected to four isothiurea groups through thioether bonds. The isothiurea groups are moderately alkaline, making Alcian blue cationic.

Alcian Blue Cartilage stain [pH 2.5] can distinguish the types of mucus substances by using different pH values of the stain solution. When pH is 1, carboxyl (COOH) does not stain, and sulfate (OSO₃H) stains. When pH is 2.5, carboxyl stains well while sulfate mucin stains poorly, so sulfate mucin and salivary mucin stain.

Catalog No.	261021
Size	2 x 50mL
Product Category	Histochemical Stain
Storage/Stability	2 ~ 8°C/1 year
Shipping	Ambient