CREATIVE BIOMART®
Assay Kit

Melanin and Lipofuscin Stain Kit (Schmorl Method)

Product Information

Product Overview

Melanin is a non-hematogenous endogenous pigment ranging in color from light brown to black and is commonly found in the skin, eyes, substantia nigra of the brain, and hair follicles. Lipofuscin is a granular yellow-brown pigment composed of lipid-containing residues and lysosomal digestion products, generally regarded as the result of lipid and lipoprotein oxidation. Lipofuscin accumulation occurs gradually, resulting in variability in staining properties, color intensity, morphology, and particle size.
The Schmorl staining method exploits the strong reducing capacity of melanin and lipofuscin, which reduce ferric ions (Fe³⁺) to ferrous ions (Fe²⁺). The ferrous ions subsequently react with potassium ferricyanide to produce a dark blue-black precipitate. Schmorl staining detects all substances capable of reducing ferric ions and is therefore not specific to melanin or lipofuscin. Differentiation is based on tissue type, pigment localization, distribution, and staining intensity, and may be complemented by ammoniacal silver staining, aldehyde fuchsin staining, or periodic acid–Schiff–related methods.

Size

2*50 mL

Storage

Store at -20 °C, protected from light. Shelf life: 1 year.

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