

ADAPT-3D™ Delipidation Buffer Component B

Product Information

Product No.: B676

Storage: Ambient “room” temperature

Product Description

Background:

ADAPT-3D™ Delipidation Buffer Component B is an essential reagent within Leinco Technologies’ advanced ADAPT-3D™ Tissue Clearing Kit, purpose-built for high-resolution 3D fluorescence imaging of biological tissues. This cutting-edge system addresses common limitations of traditional clearing methods—such as prolonged protocols and signal loss—by offering a faster, more efficient, and tissue-preserving approach.

Delipidation Buffer Component B plays a critical role in the kit’s partial delipidation step (and other buffers in the ADAPT-3D kit), working synergistically with Component A to selectively remove lipids that cause light scattering and impair deep tissue imaging. Lipids are a primary barrier to optical clarity in fixed tissue samples, and their careful removal is vital for enabling precise visualization of fluorescent signals throughout thick tissue specimens.

By contributing to the efficient and gentle delipidation process, ADAPT3D Delipidation Buffer Component A and Component B mixture plays a vital role in enabling researchers to rapidly prepare fixed tissue samples across a wide range of species and tissue types, from human intestinal tissue to intact mouse brains, for unprecedented depth and clarity in 3D fluorescence imaging.

Formula:

The ADAPT-3D™ Delipidation Buffer is formulated with a proprietary blend of reagents optimized for efficient lipid removal while preserving tissue integrity for high-resolution 3D imaging.

Storage & Stability:

Store the buffer at room temperature in a dry environment, ensuring it is protected from moisture and temperature fluctuations. Do not freeze the product; when stored as directed, it maintains full potency and stability for up to six months.

Shipping:

Available for shipment at room temperature via Ground or 2-Day Express delivery.

Product Datasheet
www.leinco.com
Country of Origin:

USA

Directions for Use:
Delipidation Step in the ADAPT-3D Protocol

Preparation: In a glass container, prepare the delipidation solution by mixing equal volumes (1:1) of ADAPT-3D™ Partial Delipidation Buffer A (Catalog #B672) and Partial Delipidation Buffer B (Catalog #B676).

Incubation: Submerge the samples in the freshly prepared ADAPT-3D™ Delipidation Buffer. Incubate until a moderate level of tissue transparency is achieved.

Important Safety Note: Partial Delipidation Buffer B is corrosive to most plastics. Always use glass containers and follow appropriate safety precautions. Consult the Safety Data Sheet (SDS) for detailed handling and storage information. Always wear protective gloves, lab coat, and safety goggles during this step.

Each investigator should determine their own optimal working dilution for specific applications. See directions on lot specific datasheets, as information may periodically change.

Hazard Description:

Handle the ADAPT-3D™ Decolorization Buffer with care in all laboratory settings. Always use appropriate personal protective equipment, including gloves, lab coat, and safety goggles. For comprehensive guidance on safe handling, storage, and emergency procedures, refer to the product's Safety Data Sheet (SDS). **NOTE: Partial delipidation B is corrosive to most plastic types. Read the Safety Datasheet (SDS) and the following handling instructions. Wear appropriate protective eyewear, clothing and gloves.**

Related Products:

Product No.	Description
B673	ADAPT-3D™ Immunostaining Buffer
B672	ADAPT-3D™ Delipidation Buffer Component A
B671	ADAPT-3D™ Decolorization Buffer
B674	ADAPT-3D™ 5X Wash Buffer
B675	ADAPT-3D™ Refractive Index Match Buffer
A630	ADAPT-3D™ Tissue Clearing Kit