



## Tissue-Clearing Reagent CUBIC-HL [for Animals]

### Product Information

Product No. : T3781

### Description

This product is supplied as a ready-to-use solution for animal tissue-clearing. CUBIC-HL (Product No. T3781) quenches fluorescence signals. It can thus be used to quench autofluorescence in human organs and is not recommended for use in transgenic animals expressing fluorescent proteins. Since samples can be delipidated strongly using this product, it is recommended for use with human organs. Tissue Clearing Reagent CUBIC-R+ (Product No. T3741) is also required for a series of procedures.

### Storage

The product can be stored at room temperature.

### Precautions

Precipitations sometimes arise, but they do not affect the quality of clearing. Samples may swell but detailed structures are preserved.



## Directions for Use

### Aggressive human tissue clearing protocol

Process	Reagent	Temp.	Time	Notes
Tissue fixation	Formalin	4 °C		Stored until use.
Wash	PBS	RT	1 day	Shake gently (same in following steps).
Delipidation	CUBIC-HL	37 °C or 45 °C	1 – 2 weeks*	37 °C for human brain or kidney, 45 °C for human heart, liver, lung or spleen
Wash	PBS	RT	1 day	
(Staining)	Stains**	RT	5 – 7 days	Optional
(Wash)	PBS	RT	1 day	Optional
Pre-treatment	50% CUBIC-R+	RT	1 day	1:1 mixture of water and CUBIC-R+
RI matching	CUBIC-R+	RT	1 – 2 days	

\*The immersion period is based on the sample size. As delipidation progresses, the apparent opacity inside the sample gradually disappears. CUBIC-HL should be refreshed at least once during delipidation. If there is a need to prolong delipidation beyond 2 weeks, we recommended that the subsequent delipidation is performed at a lower temperature or in CUBIC-L (Product No. T3740).

\*\*10 µg/mL Propidium iodide (PI) in 0.1 M Phosphate buffer (PB) containing 0.5 M NaCl  
The above protocol is mentioned as examples. Please adjust the experimental conditions according to samples and purposes of the experiment.