Instructions for Use
Isopropyl Alcohol

CATALOG NUMBER	DESCRIPTION	UNIT OF MEASUREMENT
36420-1	Isopropyl Alcohol, 1 gallon	4 per case

INTENDED USE

Isopropyl Alcohol is specifically designed for processing and staining of histological and cytological tissue specimens. It is available in anhydrous (99.9%) concentration. In tissue processing, it is used to gradually displace un-bonded, free water that exists in tissue specimens to prepare them for paraffin infiltration. The preferred technique for the use of Isopropyl Alcohol is for small biopsy tissue processing. It is an excellent lipid extractor and dehydrates tissue specimens aggressively and is popular in microwave, rapid, and xylene free tissue processing methods. In staining, Isopropyl Alcohol efficiently hydrates tissue specimens to prepare them for biological staining at the beginning of the staining process, and effectively displaces water within the tissue prior to clearing and coverslipping at the end of the staining process.

Strict quality control and assurance ensures batch to batch consistency and optimal dehydration properties. Each batch is quantitatively measured by a gas chromatograph to guarantee chemical consistency and to identify any impurities. Isopropyl Alcohol is a non-controlled substance and does not require record keeping.

STORAGE AND STABILITY

Storage: Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Store locked up. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Refer to SDS for details.

PROCEDURES FOR TISSUE PROCESSING

Recommended tissue processing procedure on a conventional tissue processor for a range of tissue types and sizes. Modifications of this schedule may be necessary.

1.	10% Neutral Buffered Formalin	1 hour/holding
2.	10% Neutral Buffered Formalin	1 hour
3.	70% Reagent Alcohol or Alcoholic Formalin	45 minutes
4.	80% Reagent Alcohol or Alcoholic Formalin	45 minutes
5.	95% Reagent Alcohol	45 minutes
6.	100% Reagent Alcohol	45 minutes
7.	100% Reagent Alcohol	45 minutes
8.	100% Reagent Alcohol	45 minutes
9.	Clearing Reagent	1 hour
10.	Clearing Reagent	1 hour
11.	Paraffin	30 minutes
12.	Paraffin	30 minutes
13.	Paraffin	30 minutes
14.	Paraffin	30 minutes

Recommended tissue processing procedure on a conventional tissue processor for small biopsies. Modifications of this schedule may be necessary.

1.	10% Neutral Buffered Formalin	15 min/holding
2.	10% Neutral Buffered Formalin	10 minutes
3.	70% Reagent Alcohol or Alcoholic Formalin	10 minutes
4.	80% Reagent Alcohol or Alcoholic Formalin	10 minutes
5.	95% Reagent Alcohol	10 minutes
6.	100% Reagent Alcohol	10 minutes
7.	100% Reagent Alcohol	10 minutes
8.	100% Reagent Alcohol	10 minutes
9.	Clearing Reagent	10 minutes
10.	Clearing Reagent	10 minutes
11.	Paraffin	5 minutes
12.	Paraffin	5 minutes
13.	Paraffin	5 minutes
14.	Paraffin	5 minutes

Recommended tissue processing procedure on a conventional tissue processor for a range if tissue types and sizes using Isopropyl Alcohol as a clearing agent. Modifications of this schedule may be necessary.

1.	10% Neutral Buffered Formalin	1 hour/holding
2.	10% Neutral Buffered Formalin	1 hour
3.	Isopropyl Alcohol	30 minutes
4.	Isopropyl Alcohol	30 minutes
5.	Isopropyl Alcohol	30 minutes
6.	Isopropyl Alcohol	30 minutes
7.	Isopropyl Alcohol	30 minutes
8.	Isopropyl Alcohol	30 minutes
9.	Paraffin	45 minutes
10.	Paraffin	45 minutes
11.	Paraffin	45 minutes
12.	Paraffin	45 minutes

Recommended tissue processing procedure on a conventional tissue processor for small biopsies using Isopropyl Alcohol as a clearing agent. Modifications of this schedule may be necessary.

13.	10% Neutral Buffered Formalin	15 min/holding
14.	10% Neutral Buffered Formalin	10 minutes
15.	Isopropyl Alcohol	10 minutes
16.	Isopropyl Alcohol	10 minutes
17.	Isopropyl Alcohol	10 minutes
18.	Isopropyl Alcohol	10 minutes
19.	Isopropyl Alcohol	10 minutes
20.	Isopropyl Alcohol	10 minutes
21.	Paraffin	5 minutes
22.	Paraffin	5 minutes
23.	Paraffin	5 minutes
24.	Paraffin	5 minutes

StatLab Medical Products
2090 Commerce Drive, McKinney, TX 75069
StatLab.com Phone: +1 800-442-3573

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PROCEDURE FOR H&E STAINING

This is an example of a staining procedure for the use of Reagent Alcohol in H&E staining. Modifications may be necessary for each lab. The recommendations aim to ensure proper tissue preparation and staining procedures. A reagent rotation/change schedule should be developed by each lab in accordance with policies and procedures.

1.	Clearing Reagent	2 minutes
2.	Clearing Reagent	2 minutes
3.	Clearing Reagent	2 minutes
4.	Isopropyl Alcohol	1 minute
5.	Isopropyl Alcohol	1 minute
6.	Isopropyl Alcohol	1 minute
7.	95% Isopropyl Alcohol	1 minute
8.	Water Rinse	30 seconds
9.	Hematoxylin	Specified time
10.	Water Rinse	30 seconds
11.	Acid Rinse	30 seconds
12.	Water Rinse	30 seconds
13.	Bluing Reagent	1 minute
14.	Water Rinse	1 minute
15.	95% Isopropyl Alcohol	15 seconds
16.	Eosin	30 seconds
17.	Isopropyl Alcohol	1 minute
18.	Isopropyl Alcohol	1 minute
19.	Isopropyl Alcohol	1 minute
20.	Clearing Reagent	1 minute
21.	Clearing Reagent	1 minute
22.	Clearing Reagent	1 minute

Please contact tech@statlab.com with any additional questions.

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