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A NOVEL MOUNTING MEDIUM PRESERVING STAINED TISSUE SLIDES: IN COMPARISON WITH DPX[®]

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The mounting medium is a solution used to adhere the coverslip to the slide to preserve and support stained tissue sections. The most popular mounting media used in laboratories for histopathology is a mixture of Distyrene (a polystyrene), a Plasticiser (tricresyl phosphate), and Xylene called DPX mounting medium that preserves stains and dries quickly. In this study a novel mixture was used replacing DPX; a mixture of extra pure benzene and Expanded Polystyrene Foam (EPF) which mixed together forming adhesive material used to adhere the coverslip with the clean, stained tissue slides, then examined under light microscopy by using different objective lenses magnification in comparison with DPX which cover the same stained tissue sections. Stored for one year to monitor the fading effect of the new mountant on the stained tissue sections. In conclusion Getting the same results of DPX, specially is a simple mixture can be made by any technician in any laboratory for histopathology as well as the time elapsed for drying of the new mounting medium is much more rapid in comparison with DPX and also the spread of EPF in many daily use product make the mixture also available and recycled in a good way as EPF used in floatation devices, egg cartons, sandwich and hamburger boxes, coffee cups and plates. Finally when I made comparison between this new mixture and DPX using the same tissues, the great results was the same, also when the colours has been measured by image analyzer software to the record the difference.

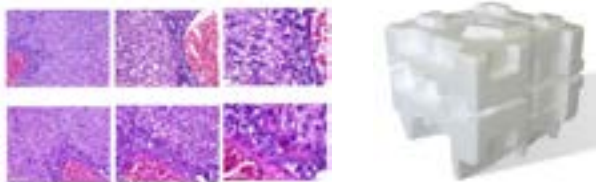


Plate: Showing microphotographs of rat liver by different magnifications of the new mounting mixture in comparison with DPX.

Recent Publications

1. O'Neil M J (2013) The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. p. 188.
2. Haynes WM (2013-2014) CRC Handbook of Chemistry and Physics. 94th Edition. CRC Press LLC, Boca Raton. p. 3-34.
3. INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (2014) Benzene fact sheet. Office of Land Quality Science Services Branch.p. 1-2.
4. Ceresana (2016) Market Study on Expandable Polystyrene. www.Ceresana.com/en
5. Australain Urethane and Styrene Pty Ltd (2011) Expanded Polystyrene is designated by plastic resin Identification Code 6 (EPS). EPS Technical Data Sheet. p. 1-4.

Biography

Nesreen M Safwat, Bachelor in Veterinary Medicine, Faculty of Veterinary Medicine. Beni-Suef Univ., (2006) and general grade: Very good with degree of honor ranking: second over my class. Master degree of Pathology, College of Veterinary Medicine, Beni-Suef University (2011) Thesis title: "Pathological studies on skin lesions in ruminants", PhD of pathology (2015) thesis entitled: "Pathological studies on ovarian alterations in relation to genital tract in bovine". Her experience as senior analyst in Salah Deeb's histopathology lab Beni-Suef University. Her experience in studying of some methods aiding in histopathology techniques.

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