

IMPROVED METHOD FOR OPTICALLY CLEARING A TISSUE SAMPLE FOR A LIGHT MICROSCOPY EXAMINATION

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ABSTRACT

The invention relates to a method for producing transparent tissue samples of a biological or human tissue for a light microscopy examination, having the steps a) dewatering the tissue sample using a dewatering solvent and b) clearing the dewatered tissue sample by transferring same into an embedding medium which contains an aromatic ester. The aromatic ester is a phenylacetic acid ester. In comparison to the benzyl benzoate/benzyl alcohol mixtures and methyl salicylate-benzyl benzoate mixtures conventionally used until now as embedding media, the aromatic ester has the advantage of being usable as a pure substance, in exactly the same way as a dibenzyl ether: Because the pure substance already has the desired refractive index, the refractive index does not need to be set by mixing the embedding medium. Furthermore, the aromatic ester is non-toxic, has a low degree of volatility, and allows a cold storage of the transparent tissue.

No Figure.