Apr 22, 2024

Self-made chrome alum gelatin coated slides

DOI
dx.doi.org/10.17504/protocols.io.3byl49kkogo5/v1

Sonja Fritzsche[1]

[1]Max-Delbrueck-Center

Sonja Fritzsche
Max-Delbrueck-Center

DOI: dx.doi.org/10.17504/protocols.io.3byl49kkogo5/v1

Protocol Citation: Sonja Fritzsche 2024. Self-made chrome alum gelatin coated slides. **protocols.io** https://dx.doi.org/10.17504/protocols.io.3byl49kkogo5/v1

Protocol status: Working
We use this protocol and it's working

Created: April 22, 2024

Last Modified: April 22, 2024

Protocol Integer ID: 98589

Abstract

This is step-wise protocol to coating microscopy slides with chrom alum gelatin for better tissue adherence.

Materials

- Chromium(III) potassium sulphate dodecahydrate (#3535.3 Carl Roth) **Carl Roth Catalog #**3535.3
- Gelatine from porcine skin **Merck MilliporeSigma (Sigma-Aldrich) Catalog #**48722

Prepare chrome alum gelatin solution

1 Heat up 200 mL ddH2O to 50 °C on hot plate using a magnetic stirrer.

2 Add 1 g gelatin gradually until completely dissolved to prevent formation of clumps.
Solution has to be clear.

3 Let solution cool down to room temperature and add 0.1 g Chrome potassium sulfate until completely dissolved.
Either proceed immediately or store the solution for a few days @ 4 °C. If stored, let the solution warm-up to room temperature
before use.

Slide coating

10m 10s

4 Pour prepared chrome alum gelatin solution in a staining dish preheated at 60 °C.

5 Incubate to-be-treated slides in [M] 70 % (v/v) Ethanol for 00:10:00 to clean them. 10m

6 Rinse in distilled water, dip at least 3 times to remove alcohol.

7 Dip the slides 5 times in the solution, 00:00:10 each. 10s

8 Leave the slides to drain for a few minutes onto a filter paper.

9 Dry the treated slides in an oven at 37 °C over night.

10 Store the slides in a dry box and protect from dust.

Protocol references

The protocol is adapted based on the following published protocols:

https://www.stainsfile.com/adhesives/chrome-alum-gelatin/