

WARNING NOTICE: The experiments described in these materials are potentially hazardous and require a high level of safety training, special facilities and equipment, and supervision by appropriate individuals. You bear the sole responsibility, liability, and risk for the implementation of such safety procedures and measures. MIT shall have no responsibility, liability, or risk for the content or implementation of any of the material presented. [Legal Notices](#)

PHENOL EXTRACTION (FOR DNA PURIFICATION)

1. To resuspended DNA sample (from minprep or other source) add 1 volume of equilibrated phenol (pH 8.0) or phenol:chloroform:isoamyl alcohol mixture (25:24:1)
2. Mix vigorously with vortex
3. Centrifuge at 5 000xg for 5 min or microfuge for 5 min
4. Carefully transfer upper aqueous phase to fresh, labelled tube; stay away from the white material at the interface (it is better to leave a small amount of aqueous material behind than it is to carry over a small amount of the interface)
5. If the interface is especially thick, repeat steps 1 through 4
6. To the aqueous sample, add 1 volume of chloroform:isoamyl alcohol mixture (24:1)
7. Centrifuge as above
8. Transfer to a fresh labelled tube and proceed to ethanol or isopropanol precipitation