**Denaturing Agent Preparation**

Sodium hydroxide solution is used to chemically denature the input DNA before mixing into the Chromium Genome master mix. To ensure optimal performance, please follow the following guidelines:

1. Prepare a fresh dilution of the stock sodium hydroxide on day it is used.
2. Store dilution in a sealed, **plastic** tube or bottle prior to use.
3. To minimize contamination, use a dedicated bottle of stock for Chromium Genome.
4. Filter sodium hydroxide dilution before use with an approved 0.2 µm filter.
5. If transferring to a trough for automation, ensure trough is free of any particulate contamination that may clog the chip.
6. Minimize the time sodium hydroxide dilution is exposed to the open atmosphere.

Approved filter materials: Nylon, PP, PVDF, PES (ensure free of glass prefilters)

Suggested Protocol:

1. Mix 10 mL stock sodium hydroxide (1.0 N) with 40 mL nuclease-free water and store in a sealed 50 mL plastic centrifuge tube. Label: Denaturing agent, unfiltered (0.2 N Sodium Hydroxide)
2. Filter by drawing the solution into a 50 mL plastic syringe, firmly attaching the filter, then pushing the solution through the filter into a clean vessel. Label: Denaturing agent, filtered (0.2 N Sodium Hydroxide)
3. If using automation, pour the filtered denaturing agent directly into the trough on the automation platform. Proceed immediately to the automation protocol using the sodium hydroxide. Do not reuse.

