
Resveratrol

Intervention source

Company: Cayman Chemical Company

Lot #: 0414330-182

Container opening date: _____

Solubility: Soluble in DMSO

MW: 228.24 g/mol

Stock concentration: 40 mM

Final concentration: 100 μ M

Filter sterilization required? Yes

Store dry powder -20°C . Location: _____

Store stock solution at -20°C . Location: _____

Stock solution preparation:

To prepare 40 mM stock solution in DMSO at room temperature, dissolve 45.65 mg powdered resveratrol in 5 mL DMSO. Filter sterilize using a 0.22 μm syringe filter into a sterile conical tube. Unless using immediately, freeze aliquots for storage at -20°C . Each tube may be thawed only once for use.

As a general guideline, 1 mL of stock solution will treat approximately 130 small (3 mL) plates or 57 scanner (7 mL) plates. The amount of stock solution made may be adjusted depending on experimental needs.

Small (38 x 13 mm) plate treatment:

Bring small FUDR+ plates seeded with OP50-1 to room temperature prior to adding the compound solution. Mix a working solution by adding 7.5 μL of 40 mM resveratrol stock solution to 125 μL of filter sterilized DI H_2O per plate. Pipette 132.5 μL of working solution to each plate. Replace lids and gently swirl to evenly spread the compound solution. Leave treated plates stacked no more than five high at 20°C for three days allowing compound solution to completely absorb into the agar.

Scanner (50 x 9 mm) plate treatment:

Mix a working solution by adding 17.5 μL of 40 mM resveratrol stock solution to 232.5 μL of filter sterilized DI H_2O per plate. Scanner plates should be treated in a sterile hood. Pipette 250 μL per plate of working solution onto room temperature scanner plates seeded with OP50-1. Gently swirl to evenly distribute the compound stock solution. Allow plates to dry completely in the hood with the fan on (~ 1 hour) before replacing lids.

Use notes: Store plates lid-down at 4°C in designated plastic containers until use. Allow



CITP Standard Operating Procedure
Information Sheet for DMSO-Soluble Interventions

plates to warm up to 20 °C before transferring worms to them. Compound plates expire two weeks after compound addition.

Special handling notes (toxic, light sensitive?):

None.

Notes on anything odd about intervention plates (precipitating, discolor, etc.):

None.