

INSTRUCTIONS FOR

Mixing Medications into MediGel[®] Sucralose



- 1 MediGel Sucralose[®] is a soft gel that is thermoreversible.
- 2 It's best to heat the gel to 55C for up to 15 minutes in a water bath or oven. Do not use a microwave.
- 3 Remove gel from bath/oven and shake vigorously to determine if the gel is liquefied. It should look like thick water.
- 4 If adding a powder drug to the gel, peel back lid, add the drug, and stir until homogeneous.
- 5 If adding a liquid drug suspension you can pierce the foil lid with a syringe, cover the hole with tape, and shake the cup vigorously for ~10 seconds until homogenized.
- 6 Once the drug is added, set in a refrigerator for 15 minutes. The gel should reset as a soft gel.
- 7 Use the drug containing MediGel Sucralose as the rodent's only water source, replacing the cup every 2 days.
- 8 For best results, provide regular MediGel[®] Sucralose to the rodents one week prior to giving them the medicated MediGel[®] Sucralose.

EXAMPLE DOSE CALCULATION FOR CARPROFEN

Dose required: 10 mg/kg/day

For a 30 gram mouse: 10 mg/kg X 0.03kg = 0.3 mg of drug/mouse/day

A 30 gram mouse on average will consume 7ml of gel per day

Therefore: 0.3 mg / 7ml gel = 0.043 mg/ml

One 2 oz cup of gel contains 60 ml

Therefore: 0.043 mg X 60ml = 2.58 mg per cup

You would want to add 2.58 mg of drug to one cup of MediGel[®] Sucralose

NOTES

1. One cup of gel medicates & hydrates up to 4 mice for 2 days.
2. Provide medicated gel 48 hours prior to surgery.
3. If using a liquid drug suspension, it is best if the volume of drug suspension added to the MediGel[®] is under 5 mls. Too much volume may prevent the gel from re-solidifying.
4. If using a liquid drug suspension, you can add some food coloring to the suspension to help with determining how well the solution is mixed.

INSTRUCTIONS FOR

Mixing FBZ into MediDrop[®] Sucralose

MediDrop[®] Sucralose is a fluid gel delivery system that is 99% water and slightly sweetened to help mask bitter medications or compounds. It is poured directly into water bottles and replaces the need to shake water bottles daily for the delivery of Fenbendazole.

Fenbendazole will be suspended in MediDrop[®] Sucralose for up to 7 days – no need to shake the water bottle daily! Further, rodents will get a higher dose and more consistent dosing with MediDrop[®] Sucralose.



EXAMPLE DOSE CALCULATION OF FENBENDAZOLE 150PPM MEDIGEL[®] SUCRALOSE SOLUTION

Drug used: 10% solution of Panacur or Safe-Guard
Goal: To achieve 150ppm concentration in 1 gallon of MediDrop[®] Sucralose

HOW MUCH FENBENDAZOLE DO I ADD TO ONE GALLON OF MEDIDROP[®] SUCRALOSE?

1. 150 ppm = 150 mg/kg
2. There is 3780 mg or 3.78 kg of MediDrop[®] in one gallon
3. Therefore: 150mg x 3.78kg = 567 mg or 0.57 grams of fenbendazole needs to be added to one gallon of MediDrop[®] Sucralose

HOW DO I CALCULATE HOW MUCH PANACUR/ SAFEGUARD (10% FENBENDAZOLE) TO ADD TO MEDIDROP[®] SUCRALOSE?

1. There is 0.57 grams of fenbendazole in 5.7 mls of Panacur/Safe-Guard (10%)
2. Therefore: add 5.7 mls of Panacur/Safe-Guard to 1 gallon of MediDrop[®] Sucralose
3. Shake gallon jug vigorously for 10 seconds to suspend the fenbendazole
4. Use the MediDrop[®] Sucralose/fenbendazole solution to add to water bottles as needed
5. Shake bottles weekly to resuspend the fenbendazole

Please Note: Panacur/Safe-Guard is a liquid suspension of fenbendazole. It needs to be shaken before use.

INSTRUCTIONS FOR

Mixing TMS into MediDrop[®] Sucralose



MediDrop[®] Sucralose is a fluid gel delivery system that is 99% water and slightly sweetened to help mask bitter medications or compounds. It is poured directly into water bottles and replaces the need to shake water bottles daily for the delivery of Fenbendazole.

Fenbendazole will be suspended in MediDrop[®] Sucralose for up to 7 days – no need to shake the water bottle daily! Further, rodents will get a higher dose and more consistent dosing with MediDrop[®] Sucralose.

EXAMPLE DOSE CALCULATION OF BACTRIM (SULFAMETHOXAZOLE AND TRIMETHOPRIM ORAL SUSPENSION, USP, 200 MG/40 MG PER 5 ML CHERRY FLAVORED ORAL SUSPENSION)

Drug used: Bactrim Cherry Flavor 200/40 mg per 5 ml liquid suspension

Goal: To achieve a standard concentration of 2000 ppm sulfamethoxazole and 400 ppm trimethoprim

HOW MUCH BACTRIM DO I ADD TO ONE GALLON OF MEDIDROP[®] SUCRALOSE?

1. 2000 ppm = 2000 mg/kg. 400 ppm = 400 mg/kg
2. There is 3780 mg or 3.78 kg of MediDrop[®] in one gallon
3. Therefore; 2000 mg x 3.78kg = 7,560 mg or 7.6 grams of sulfamethoxazole needs to be added to one

gallon of MediDrop[®] Sucralose. Because Bactrim is a combination drug, adding sulfamethoxazole at the correct concentration means the trimethoprim will be added at the correct concentration.

HOW DO I CALCULATE HOW MUCH BACTRIM TO ADD TO MEDIDROP[®] SUCRALOSE?

1. There is 200 mg sulfamethoxazole in 5ml of Bactrim suspension
2. Therefore; there is 40 mg per ml of Bactrim
3. Therefore, 7,560/40 = 189 ml of Bactrim needs to be added to one gallon of MediDrop[®] Sucralose.

Please note: There is not enough headspace at the top of a gallon jug to accommodate the 189ml volume of Bactrim. It is best to add the gallon of MediDrop[®] to a larger vessel and then add the 189ml of Bactrim. Mix with a hand held stir bar or magnetic stirrer to achieve homogeneity. The drug should stay in suspension for up to 7 days.