

Doxycycline diets for Tet regulated systems



INOTIV MAKES A VARIETY OF DOXYCYCLINE CONTAINING DIETS FOR YOUR TET REGULATED SYSTEMS.

TD.01306 with doxycycline hyclate added at 625 mg/kg to Teklad global 2018 rodent diet is stocked and can typically ship within 1 - 2 days (non-irradiated) or 1 - 2 weeks (irradiated).

If you have any questions, please contact our team of Inotiv nutritionists at askanutritionist@inotivco.com.

TABLE 1:

FORMULA EXAMPLES WITH TEKLAD GLOBAL 2018 BASE DIET		
Doxycycline hyclate ¹ USP (mg/kg diet)	Natural color	Alternatives with food coloring
46	TD.10483	TD.180327 Red TD.120240 Blue
100	TD.04233	TD:130840 Blue
200	TD:00502	TD.180625 Red TD.150431 Blue TD.04104 Green
625	TD.01306 stocked ²	TD.08541 Red TD.120769 Blue TD.09628 Green
1000	TD.05298	TD.06294 Red TD.120658 Blue
2000	TD.05512	TD.140011 Red TD.09633 Green
6000	TD.01533	

¹ Doxycycline hyclate is ~87% doxycycline

CONSIDERATIONS WHEN CHOOSING A BASE DIET

- Teklad Global Rodent Diets[®] like 2018 do not contain alfalfa and are thus ideal if your work requires an alfalfa-free diet for fluorescent imaging. If further imaging clarity is needed, we can make purified diets with doxycycline.
- Teklad Global Rodent diet 2018 (base diet in Table 1 examples) contains a moderate amount of soybean meal, a source of phytoestrogens. Table 2 includes several options of minimal phytoestrogen diets with the most common doxycycline concentration of 625 mg/kg diet. For other concentrations contact our nutritionist team at askanutritionist@inotivco.com.

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²TD.01306 typically ships within 2 days non-irradiated or 2 weeks with irradiation

TABLE 2:

2019

2020

DIETS WITH DOXYCYCLINE HYCLATE1 AT 6252 MG/KG DIET			
Base diet	Natural color	Alternatives with food coloring	
2014	TD.00426	TD.07382 Red TD.07573 Yellow	
2016	TD.02503	TD.140263 Blue TD.170364 Red	

TD 09761 Green

TD.130141 Red

EXAMPLES OF MINIMAL PHYTOESTROGEN GLOBAL RODENT

TD 09651

TD.110720

Advantages of diet delivery of doxycycline

- Typically the same doxycycline concentration can be used in diet as in water. Lower concentrations of doxycycline may be adequate with 625 mg/kg diet being the most common concentration.
- Diet offers protection from light. Water may have to be given in dark-colored or foil-wrapped bottles.
- Diet is typically changed once per week while water may need to be changed every few days.
- Diet delivery may also reduce risk of dehydration and preclude the need to give with sucrose.

Key planning information

- Minimum order quantity is 3 kg, sufficient for feeding ~20 mice for one month.
- Store diet refrigerated and plan to use within six months.
- Typical lead time is two weeks (four weeks if irradiated).
- TD.01306 typically ships within 2 days non-irradiated or 2 weeks with irradiation.
- Irradiation (20 50 kGy) is optional and must be requested at time of order.

Safe handling of doxycycline diets

- Doxycycline is a tetracycline class antibiotic.
- Usual dose for therapeutic effects in humans is 100-200 mg/day. Doxycycline diets for rodents typically contain ~2 mg/pellet.
- Accidental doxycycline exposure can be minimized by using typical lab precautions of lab coat, gloves, and mask when handling the diet.
- Your chemical safety department should be contacted for additional institution specific guidelines for handling and disposal of doxycycline containing diets.

Contact us at

askanutritionist@inotivco.com

with your specific needs, and we
can recommend an existing product
code or create a new formulation.

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²Additional concentrations in these base diets are available