

Approved Drugs for Use in Aquaculture



FLORFENICOL				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
AQUAFLO® Intervet/Schering-Plough Animal Health Corp. 1-800-521-5767	Catfish	Control of enteric septicemia due to <i>Edwardsiella ictaluri</i> Control of columnaris disease due to <i>Flavobacterium columnare</i> (Conditional Approval)	• 10 mg florfenicol/kg fish/d for 10 days	• Veterinary Feed Directive (VFD) drug • 12 day withdrawal time
	Freshwater-reared salmonids	Control of furunculosis due to <i>Aeromonas salmonicida</i> Control of coldwater disease due to <i>F. psychrophilum</i>	• 10 mg florfenicol/kg fish/d for 10 days	• VFD drug • 12 day withdrawal time • Must use AQUAFLO®-CA1 product

HYDROGEN PEROXIDE				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
35% PEROX-AID® Western Chemical, Inc. 1-800-283-5292	Freshwater-reared finfish eggs	Control fungi due to Saprolegniaceae	• Coldwater and cool-water: 500—1,000 mg/L for 15 min in a continuous flow system once per day on consecutive or alternate days until hatch • Warmwater: 750—1,000 mg/L for 15 min in a continuous flow system once per day on consecutive or alternate days until hatch	• Initial bioassay on a small number of fish is recommended before treating the entire group
	Freshwater-reared salmonids	Control bacterial gill disease due to <i>Flavobacterium branchiophilum</i>	• 100 mg/L for 30 min or 50—100mg/L for 60 min once per day on alternate days for 3 treatments	• Initial bioassay on a small number of fish is recommended before treating the entire group
	Freshwater-reared coolwater finfish and channel catfish	Control external columnaris disease due to <i>Flavobacterium columnare</i>	• Fingerling and adults: 50—75 mg/L for 60 min once per day on alternate days for 3 treatments • Fry: 50 mg/L for 60 min once per day on alternate days for 3 treatments	• Initial bioassay on a small number of fish is recommended before treating the entire group • Should not be used to treat northern pike or paddlefish (any life-stage) or pallid sturgeon (fry) • Use with caution on walleye

CHORIONIC GONADOTROPIN				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
CHORULON® Intervet Inc. 1-800-441-8272	Male and female brood finfish	Aid in improving spawning function	• 50—510 IU/lb males • 67—1,816 IU/lb females	• Intramuscular injection • Up to three doses. Total dosage not to exceed 25,000 IU in fish intended for human consumption • Prescription product restricted to use by or on the order of a licensed veterinarian

FORMALIN				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
PARASITE-S Western Chemical 1-800-283-5292	All finfish	Control external protozoa (<i>Chilodonella</i> , <i>Costia</i> , <i>Epistylis</i> , <i>Ichthyophthirius</i> , <i>Scyphidia</i> , and <i>Trichodina</i> spp.)	• Salmon & trout in tanks and raceways: • Above 50°F: up to 170 µL/L for up to 1 hr • Below 50°F: up to 250 µL/L for up to 1 hr	• Drug must not be subjected to temperatures below 40°F • Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton blooms, or (3) dissolved oxygen is less than 5 mg/L • Ponds may be retreated in 5 to 10 days if needed • Do not treat ponds containing striped bass • Test on a small number of fish from each lot to check for any unusual sensitivity to formalin before proceeding
		and monogenetic trematodes (<i>Cleidodiscus</i> , <i>Dactylogyrus</i> , and <i>Gyrodactylus</i> spp.)	• All other finfish up to 250 µL/L for up to 1 hr • Earthen ponds: 15—25 µL/L indefinitely	• Preliminary bioassay should be conducted on a small number of fish to determine species sensitivity
FORMALIN-F™ Natchez Animal Supply Co. 1-800-647-6760	All finfish eggs	Control fungi due to Saprolegniaceae	• All finfish eggs: 1,000—2,000 ppm for 15 min • Acipenseriformes: up to 1,500 ppm for 15 min	
FORMACIDE-B B.L. Mitchell, Inc. 1-800-817-5808	Penaeid shrimp	Control protozoan parasites (<i>Bodo</i> , <i>Epistylis</i> , and <i>Zoothamnium</i> spp.)	• Tanks and raceways: 50—100 µL/L for up to and 4 hrs daily • Earthen ponds: 25 µL/L as single treatment	• Drug must not be subjected to temperatures below 40°F • Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton blooms, or (3) dissolved oxygen is less than 5 mg/L • Ponds may be retreated in 5 to 10 days if needed
		Control external protozoa (<i>Chilodonella</i> , <i>Costia</i> , <i>Epistylis</i> , <i>Ichthyophthirius</i> , <i>Scyphidia</i> , and <i>Trichodina</i> spp.)	• Salmon & trout in tanks and raceways: • Above 50°F: up to 170 µL/L for up to 1 hr • Below 50°F: up to 250 µL/L for up to 1 hr	• Drug must not be subjected to temperatures below 40°F • Do not apply to ponds when (1) water is warmer than 80°F, (2) there is a heavy phytoplankton blooms, or (3) dissolved oxygen is less than 5 mg/L • Ponds may be retreated in 5 to 10 days if needed • Do not treat ponds containing striped bass • Test on a small number of fish from each lot to check for any unusual sensitivity to formalin before proceeding
PARACIDE-F® Argent Laboratories 1-800-426-6258	Salmon, trout, catfish, largemouth bass, and bluegill	and monogenetic trematodes (<i>Cleidodiscus</i> , <i>Dactylogyrus</i> , and <i>Gyrodactylus</i> spp.)	• Catfish, largemouth bass, and bluegill: up to 250 µL/L for up to 1 hr • Earthen ponds: 15—25 µL/L indefinitely	• Preliminary bioassay should be conducted on a small number of fish to determine species sensitivity
		Control fungi due to Saprolegniaceae	• 1,000—2,000 ppm for 15 min	

SULFADIMETHOXINE & ORMETOPRIM				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
ROMET® 30 and ROMET® TC Aquatic Health Resources 1-877-280-2858	Salmonids	Control furunculosis due to <i>Aeromonas salmonicida</i>	• 50 mg/kg fish/day for 5 days	• In feed • 42 day withdrawal time
	Catfish	Control enteric septicemia due to <i>Edwardsiella ictaluri</i>	• 50 mg/kg fish/day for 5 days	• In feed • 3 day withdrawal time

- NOTE**
- The information provided above is intended as guidance. Always refer to each product's label for specific instructions.
 - It is the user's responsibility to read the MSDS for each product and comply with local NPDES requirements.
 - Use of product names does not indicate endorsement by the U.S. Fish & Wildlife Service or the American Fisheries Society.
 - **Veterinary Feed Directive (VFD) drug (e.g., Aquaflo®):** Certain drugs that are intended for use in animal feeds. The use of VFD drugs is permitted only under the professional supervision of a licensed veterinarian. VFD drugs cannot be used under extra-label drug-use provisions.
 - **Prescription drugs (e.g., Chorulon®):** Drugs that may be used only by, or on the order of, a licensed veterinarian.
 - **Extra-Label Use:** The actual or intended use of a FDA-approved drug in a manner that is not in accordance with the approved label directions. Extra-label use is permitted only by, or on the order of, a licensed veterinarian when a valid vet-client-patient relationship exists.
 - Please see the FDA/CVM website for additional information: www.fda.gov/cvm

OXYTETRACYCLINE HYDROCHLORIDE				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
Oxytetracycline HCl Soluble Powder-343 IVX Animal Health 1-800-759-3664	Finfish fry and fingerlings	Mark skeletal tissues	• 200—700 mg oxytetracycline hydrochloride (buffered)/L of water for 2—6 hrs	• None
TERRAMYCIN-343® Aquatic Health Resources 1-877-280-2858				
TETROXY Aquatic Soluble Powder Bimeda 1-888-524-6332				

OXYTETRACYCLINE DIHYDRATE				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
TERRAMYCIN® 200 for Fish Phibro Animal Health 1-888-475-7355	Pacific salmon	Mark skeletal tissue	• 250 mg/kg fish/day for 4 days	• Salmon <30 g size • In feed as sole ration • 7 day withdrawal time
	Salmonids	Control of ulcer disease (<i>Hemophilus piscium</i>), furunculosis (<i>Aeromonas salmonicida</i>), bacterial hemorrhagic septicemia (<i>A. liquefaciens</i>), and pseudomonas disease (<i>Pseudomonas</i>)	• 2.5—3.75 g/100 lbs/day for 10 days	• In mixed ration • 21 day withdrawal time • No temperature restrictions on use
	Freshwater-reared salmonids	Control of mortality due to coldwater disease caused by <i>Flavobacterium psychrophilum</i>	• 3.75 g/100 lbs/day for 10 days	• In mixed ration • 21 day withdrawal time • No temperature restrictions on use
	All freshwater-reared Oncorhynchus mykiss	Control mortality due to columnaris disease (<i>F. columnare</i>)	• 3.75 g/100 lbs/day for 10 days	• In mixed ration • 21 day withdrawal time • No temperature restrictions on use
	Catfish	Control bacterial hemorrhagic septicemia (<i>A. liquefaciens</i>) and pseudomonas disease (<i>Pseudomonas</i>)	• 2.5—3.75 g/100 lbs/day for 10 days	• In mixed ration • Water temperature not below 62°F (16.7°C) • 21 day withdrawal time
	Lobster	Control gaffkemia (<i>Aerococcus viridians</i>)	• 1 g/lb medicated feed for 5 days	• In feed as sole ration • 30 day withdrawal time

TRICIAINE METHANESULFONATE				
Product name & supplier	Species	Indication	Dosing	Limitations & comments
FINQUEL® Argent Laboratories 1-800-426-6258	Fish (Ictaluridae, Salmonidae, Esocidae, and Percidae), aquatic amphibians, and other aquatic poikilotherms	Temporary immobilization	• Fish: 15—330 mg/L	• Powder is added to water • Concentration depends upon desired degree of anesthesia, species, size, water temperature and softness, and stage of development • Preliminary tests of solution should be made with a few fish • 21 day withdrawal time (fish); laboratory or hatchery use only in other poikilotherms—water temperature over 50°F
TRICIAINE-S Western Chemical, Inc. 1-800-283-5292			• Other poikilotherms: 1:1,000—1:20,000	