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SAPOS-FLECHA

## Blue-bellied Poison Frog

# *Andinobates minutus*

*Andinobates minutus* is one of the smallest poison dart frogs, only 13-16 mm from snout to vent. It lives in the leaf litter of humid lowland forest from central Panama to the Pacific coast of Colombia, and the male carries the tadpoles up into bromeliads. The species is not collected for the pet trade and is hardly kept, so little is known about its care.

Família: Dendrobatidae  Nome anterior: *Ranitomeya minuta; Dendrobates minutus; Minyobates minutus*

DADOS PRINCIPAIS

### O ANIMAL

| | |
|---|---|
| Tamanho adulto | **13-16 mm**<br>comprimento focinho-cloaca |
| Longevidade | **5-10 anos** |
| Ativo | **De dia** |
| Estilo de vida | **Terrestre** |
| Habitat | **Floresta tropical** |
| Toxinas na pele na natureza | **Leves** |
| Toxinas na pele em cativeiro | **Nenhuma**<br>Animais nascidos em cativeiro. Animais capturados na natureza podem manter as toxinas por muito tempo |
| Dificuldade | **Experiente** |

### CUIDADOS

| | |
|---|---|
| Terrário mín. | **45 × 45 × 45 cm**<br>C × L × A para 2 adultos |
| Temperatura, dia | **22-25 °C** |
| Temperatura, noite | **19-22 °C** |
| Umidade | **80-100%** |
| Água | **Sem recipiente de água** |
| UVB | **Opcional**<br>Zona de Ferguson 1 |
| Alimentação | **Pequenos invertebrados (colêmbolos, drosófilas)** |
| Mantido | **Em casal** |

### REPRODUÇÃO

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|---|---|
| Reprodução | **Ovíparo** |
| Desenvolvimento | **Girinos carregados até a água** |
| Local de postura | **No chão** |
| Ovos por postura | **1-8** |
| Fase larval | **60-80 dias**<br>da eclosão até a metamorfose |
| Alimentação das larvas | **Ração completa** |
| Cuidado parental | **Carrega os girinos** |

### PROTEÇÃO E DOCUMENTAÇÃO

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|---|---|
| CITES | **Apêndice II** |
| IUCN | **Menos preocupante (LC)** |

## Sobre a espécie

*Andinobates minutus* was described in 1935 by Benjamin Shreve as *Dendrobates minutus*. It was later placed in *Minyobates* and *Ranitomeya* until the genus *Andinobates* was established in 2011. The species name *minutus* means "small", and that fits: adults measure only 13-16 mm from snout to vent.

The species is dark with a bluish belly. The colour pattern varies, and as in many poison dart frogs the variation makes it difficult to tell the species apart by colour alone.

The skin contains alkaloids, which the frog takes up from its food in the wild. It is a specialist in small prey: mites, ants, springtails and insect larvae. Captive-bred animals living on cultured feeder insects do not acquire the toxins. Animals from the wild should be treated as toxic, and hands should be washed after contact.

*A. minutus* is locally abundant, but unlike many other poison dart frogs it is not collected for the pet trade, and it is almost unknown in terrariums.

## Distribuição e habitat

*Andinobates minutus* occurs in Panama and Colombia. In Panama it lives in the central part of the country, including around El Valle and Cerro Campana west of the Panama Canal, and in the eastern lowlands and mountains. To the south the range follows Colombia's Pacific side to the Río Saija.

The species lives below 1,000 m above sea level, most often considerably lower. In Chocó and eastern Panama the range overlaps with *Andinobates fulguritus*, and the two species occur side by side in several places.

> **Área de ocorrência natural:** Colômbia e Panamá.

### HABITAT

The habitat is humid tropical lowland forest. The frog is terrestrial and diurnal and lives in the leaf litter on the forest floor. It occurs in intact forest and in older secondary forest, but not in destroyed forest.

The eggs are laid in the leaf litter, and the male carries the newly hatched tadpoles up into bromeliads, where they complete their development in the small pools of water.

The threats are deforestation for agriculture, illegal crops, timber and settlements, as well as pollution from spraying of the illegal fields.

## Cuidados

### O TERRÁRIO

Little is known about the care of *Andinobates minutus*. The care is based on the habitat: warm, humid lowland forest with rain for most of the year and a thick layer of leaf litter. *Andinobates fulguritus* lives in the same area and has the same requirements. The figures for care and breeding are borrowed from *Ranitomeya imitator*, a small and well-known poison dart frog from rainforest.

A pair can be kept in an enclosure of 45 × 45 × 45 cm. Build the base from a drainage layer of expanded clay pebbles, a mesh or fibre cloth over it and a layer of damp, free-draining soil. On top, add some moss and a thick layer of leaf litter, which is the species' natural habitat and provides cover. Live plants hold the humidity and help keep the enclosure clean, and bromeliads provide leaf axils for the tadpoles. Springtails and isopods in the substrate eat leftovers and mould.

The frogs and their feeder insects are very small, so the lid and ventilation must be completely secure with fine mesh.

### TEMPERATURA

The daytime temperature should be 22-25 °C and the night 19-22 °C. The temperature must not exceed 27 °C for long, and above 29 °C is dangerous, so the enclosure must not stand in sun or close to a heat source. There should be no basking spot.

In an ordinary heated room extra heat is rarely necessary. There is no winter rest period, because the climate in the species' range is uniform all year. A digital thermometer with max and min display shows whether the temperature fluctuates too much.

### UMIDADE E NEBULIZAÇÃO

Humidity should be 80-100 %. Spray the enclosure 1-2 times a day with rainwater or reverse osmosis water so that the leaf litter is kept damp, or use a rain system on a timer. The substrate should be damp but never standing in water.

Low humidity is quickly dangerous for such a small frog, especially if it cannot retreat into damp leaf litter. At the same time provide a little air exchange, because stagnant, saturated air causes mould.

### ÁGUA E QUALIDADE DA ÁGUA

The adult frogs do not need a water bowl; they take up water through the skin from spraying and the damp leaf litter. For breeding there must be small pools of water to which the male can carry the tadpoles: bromeliads with water in the leaf axils or small containers with 1-3 cm of water.

Use rainwater, reverse osmosis water or dechlorinated tap water. Amphibians absorb substances through the skin, so keep soap, cleaning products and chlorine away from the enclosure.

### ILUMINAÇÃO E UVB

The species is diurnal and lives in shade on the forest floor. LED lighting for about 12 hours a day is enough for the plants. UVB is not necessary; a weak UVB light in Ferguson zone 1 can be used if there is plenty of shade.

The light must not heat up the enclosure, and LED gives off the least heat. The plants must have enough light to grow, so that the leaf litter and moss stay healthy.

Saiba mais: Luz e UVB

### ALIMENTAÇÃO

In the wild *Andinobates minutus* lives on mites, ants, springtails and insect larvae. The species is so small that the feeder insects must be the smallest available: springtails, small wingless fruit flies (*Drosophila melanogaster*) and small isopods.

Feed daily with a small amount, so that most of it is eaten within a few hours. Dust the feeder insects with calcium and vitamins at every feeding. The feeder cultures must be up and running before the frogs arrive, because such small frogs cannot tolerate going hungry.

### COMPORTAMENTO E MANUSEIO

The species is diurnal and stays in the leaf litter and by the hiding places. The males call from fixed spots and defend their territory, so a pair is the way to keep them. Several males in the same enclosure cause stress and fighting.

The frogs should not be handled. The skin is thin and sensitive, and soap or cream on the hands can harm them. If they have to be moved, use a small container with damp moss.

## Reprodução

### MATURIDADE SEXUAL E SEXAGEM

The sexes look alike. In poison dart frogs the female is usually slightly larger than the male, and a female with eggs is distinctly rounder. Only the male calls. The age at sexual maturity has not been documented; *Ranitomeya imitator* becomes sexually mature at 5-8 months. A pair is easiest to obtain by letting several young grow up together.

### ACASALAMENTO

Mating has not been described for the species. In the closest relatives the male finds a suitable site for the eggs and leads the female there, and the pair lay the eggs in the leaf litter. A pair in a stable, humid enclosure with plenty of food and peace is the best setting. Rain from a rain system can trigger calling.

### OVOS E GIRINOS

The eggs are laid in the leaf litter. When they hatch, the male carries the tadpoles up to bromeliads, where they complete their development in the small pools of water.

The number of eggs has not been documented, and 1-8 eggs is probably on the high side for such a small frog. If the tadpoles are removed, they are kept individually in small containers, because otherwise they may eat each other. They are fed fine tadpole food in small portions, and the water is changed regularly.

### METAMORFOSE

The eggs probably hatch after 1-2 weeks, and the tadpoles metamorphose after about 60-80 days, depending on temperature and food.

When the front legs appear, the tadpole stops eating. Place a piece of cork on the water or lower the water level so that the little frog can climb out, and move it to a container with damp moss and leaf litter.

### CRIAÇÃO DOS FILHOTES

The newly metamorphosed young are only a few millimetres long and need the smallest springtails and newly hatched fruit flies every day, dusted with calcium and vitamins. Keep them in a small container with damp moss, leaf litter and many hiding places, so that the food is easy to find.

## Saúde e erros comuns

The species has not been documented in captivity. Typical problems in small poison dart frogs are:

- Overheating: lethargy and death, especially above 29 °C.
- Dehydration, because small frogs lose water quickly.
- A lack of calcium and vitamins on a one-sided diet; use supplements.
- Starvation, if the feeder insects are too large or the cultures fail.
- Fungal and bacterial infections in a wet enclosure without air exchange.
- Parasites in wild-caught animals.

A frog that sits still during the day, loses weight or develops reddish skin should be seen by a vet with knowledge of amphibians.

### Pergunte sempre a quem entende do assunto

Este guia é um bom lugar para começar, mas não substitui a experiência. Os animais diferem, e boa parte do que mais importa se aprende com quem cria a espécie há anos. Converse com um criador, um tutor experiente ou um veterinário que conheça répteis e anfíbios antes de ter o animal - e de novo se algo parecer errado.