



Jul 23, 2020

Blood collection for BALs

Brent Boomhower¹, Olivier George¹¹University of California, San Diego**1** Works for me This protocol is published without a DOI.

George Lab

Tech. support email: olgeorge@ucsd.edu

Brent Boomhower

ABSTRACT

This protocol specifically outlines the blood collection procedure for gas chromatography BAL analysis by Dr. Amanda Robert's Lab at TSRI's Alcohol Research Center.

EXTERNAL LINK

https://docs.google.com/document/d/1-qOz9Jg1-_hng69KBvdNTm0EwCLRTWS7XeP46eBfe88/edit?usp=sharing

PROTOCOL CITATION

Brent Boomhower, Olivier George 2020. Blood collection for BALs. **protocols.io**
<https://protocols.io/view/blood-collection-for-bals-beyujfww>

EXTERNAL LINK

https://docs.google.com/document/d/1-qOz9Jg1-_hng69KBvdNTm0EwCLRTWS7XeP46eBfe88/edit?usp=sharing

LICENSE

This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Apr 13, 2020

LAST MODIFIED

Jul 23, 2020

PROTOCOL INTEGER ID

35572

GUIDELINES

NOTE: Animals should be bled no more than twice per week to prevent tail tissue necrosis and undue stress on the animal.

- 1 Submit a BAL request a day before collecting blood on <https://www.oliviergeorge.com/bal>
 - *IACUC Protocol*: S19016
 - *Funding Source*: ARC
 - *Method*: GC
 - *Comments*: State the **time** & **date** the samples will be delivered to TSRI



Ask mentor for directions to the specific drop-off site for blood samples.

- 2 Label 1.5 mL microcentrifuge tubes with corresponding animal IDs.



Animals must be bled within ~30 minutes of passive vapor shut off to prevent lowering of BALs before blood collection.

- 3 Open microcentrifuge tube and place in a tube rack that can hold all samples.



** The samples will be dropped off at TSRI in this tube rack. Label tube rack on tape with your name, "George," date, and number of samples. **

- 4 Pick up the animal and firmly hold its body under your armpit to restrain the animal, leaving its tail exposed.



Animal can also be restrained by wrapping the body in a towel or disposable underpad.

- 5 Place the distal tail on a flat surface and use an 18g needle to perpendicularly pierce ~1-2 cm from the tail tip all the way through the tail.



Use a new needle every few animals to maintain a clean puncture.

- 6 Immediately after puncturing, draw blood from the tail by firmly dragging fingers from the base of the tail to the end and repeat until ~100 ul of blood is collected.

- 7 Close the microcentrifuge tube and repeat steps 3-6 for all animals.

- 8 Centrifuge blood samples at 13,000 rpm and 22°C for 10 minutes and place samples back into tube rack on wet ice.

- 9 Transport on wet ice to TSRI for gas chromatography analysis.



*The door code at the sample drop-off area is **5142**.*