

Animal Perfusion Worksheet (Rats P46 or older) for LM**Animal ID:**

K. Harris Lab

Date of Perfusion: 2022-07-05

Project Name: synaptopodin

Experimenter:

Assistant(s):

Animal Data

Animal ID:

Species: rat

Sex: ♂ ♀

Strain: LE

Genotype:

Date of Birth:

Age (postnatal days):

Weight:

g

Source: Harris Lab colony cage#

Transnetyx well plate#:

well position:

Notes (e.g., surgery, behavioral tests, etc.):

Perfusion Reagents*Anesthetic:* isoflurane

Dose: saturating

Route: inhalation

Pre-fixative Perfusate: Krebs-Ringers Carbicarb (KRC)

Composition (mM): sodium chloride (118), potassium chloride (4.7), calcium chloride (2), magnesium sulfate (4), D-glucose (11), sodium bicarbonate (12.5), sodium carbonate (12.5)

pH =

Osmolarity (mmol/kg) =

Temperature (°C) = 41

Notes:

Fixative:

Composition: formaldehyde (4%) in 0.1 M phosphate buffer

pH = 7.4

Osmolarity (mmol/kg) =

Temperature (°C) =

Notes:

Other:

Composition (mM):

pH =

Osmolarity (mmol/kg) =

Temperature (°C) =

Notes:

Perfusion

Step	Time (min:sec)	Notes
Begun Anesthetizing the Animal:	00:00	In desiccator jar saturated with isoflurane.
Toe Pinch		Response (circle one): Absent Present
Animal Fitted with Nose Cone:		Vaporizer settings: 5% isoflurane; 400ccm O ₂ /CO ₂ Ventilator settings: 120 breaths/min; 1.5cc tidal volume
Tracheotomy Begun:		
Vaporizer Settings Adjusted:		Vaporizer settings: 4% isoflurane; 100ccm O ₂ /CO ₂
Thoracic Cavity Open:		
Right Atrium Clipped:		
Left Ventricle Punctured & Perfusion with Pre-fixative Begun:		Pressure = 80 mmHg
Perfusion with Fixative:		Pressure = 80 mmHg; Animal is deceased at this point.
Pressure Increased to 120 mmHg:		
Pressure Increased to 180 mmHg:		Maintain for 5 min.
Chin Clip and Fixative Observed:		Fix from Chin = ; Fix from Nose/Mouth =
Pressure Decreased to 80 mmHg:		
Pressure Decreased Further:		Pressure (mmHg) =
Other Steps:		
End of Perfusion:		
Brain Removed from Skull:		
Notes:		

Post-perfusion Fixation

Fixative type:

Duration (hr, or indicate start and end time):

Temperature (°C) =

Appearance of the Brain (e.g., color, firmness, presence of blood, etc.):

Vibratome Sectioning

Date of Sectioning:

Section Thickness (μm) =

Plane of Section: Parasagittal | Coronal | Horizontal

Total Number of Sections Collected (indicate R/L hemisphere for parasagittal plane):

Notes (lost or damaged sections, etc.):