Date of Perfusion: 2016- Project Name:

Experimenter: Assistant(s):

Animal Data

Animal ID:

Species: rat Sex: ♂ ♀ Strain: LE Genotype:

Date of Birth: Age (postnatal days): Weight: g

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

Perfusion Reagents

Anesthetic: isoflurane

Dose: 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) =

Notes:

Fixative:

Composition:

- glutaraldehyde (2.5%), formaldehyde (2%), sodium cacodylate trihydrate (100 mM), calcium chloride (2 mM), magnesium sulfate (4 mM)

pH = 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 or induction chamber saturated with isoflurane.
Toe Pinch		Response (circle one): Absent | Present
Animal Fitted with Nose Cone:		Nose cone = a 15ml conical tube saturated with isoflurane absorbed in cotton gauze; make sure isoflurane is not dripping out of the tube.
Thoracic Cavity Open:		
Right Atrium Clipped:		
Left Ventricle Punctured & Perfusion with Pre-fixative Begun:		Pressure (mmHg) = 80
Perfusion with Fixative:		Pressure (mmHg) = 80; Animal is deceased at this point.
Pressure Increased to 120 mmHg:		
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.):