Animal Perfusion Worksheet (Rats P46 or older)

Animal ID:

K. Harris Lab

Date of Perfusion: 20 Project Name: Experimenter: Assistant(s):

<u>Animal Data</u>

Animal ID:

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

Source: Harris Lab colony cage#

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

<u>Perfusion Reagents</u> <u>Anesthetic</u>: 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:

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Perfusion Time Step Notes (min:sec) Begun Anesthetizing the Animal: 00:00 In desiccator jar saturated with isoflurane. Toe Pinch Response (circle one): Absent | Present Vaporizer settings: 5% isoflurane; 400ccm O₂/CO₂ Animal Fitted with Nose Cone: Ventilator settings: 120 breaths/min; 1.5cc tidal volume Tracheotomy Begun: Vaporizer Settings Adjusted: Vaporizer settings: 4% isoflurane; 100ccm O₂/CO₂ Thoracic Cavity Open: Right Atrium Clipped: Left Ventricle Punctured & Pressure (mmHg) = 80 Perfusion with Pre-fixative Begun: Perfusion with Fixative: Pressure (mmHg) = 80; Animal is deceased at this point. Pressure Increased to 120 mmHg: Pressure Increased to 180 mmHg: Fix from Chin = Chin Clip and Fixative Observed: ; Fix from Nose/Mouth = Pressure Decreased to 80 mmHg: Pressure Decreased Further: Pressure (mmHg) = Other Steps: End of Perfusion: Brain Removed from Skull: Notes:

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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.):

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