Tissue Request Guidelines: Tissue Amount

The table below indicates acceptable amounts of tissue that can be requested for different types of studies. As different brain banks process and store their samples differently, you may be supplied with more tissue than you request. However, each of the tissue amounts below will provide enough material to perform each type of methodology listed. These values were derived in collaboration with researchers who have successfully performed each methodology using human brain tissue.

If your methodology is not listed below, please include a detailed rationale supporting the amount of tissue you are requesting.

If your methodology is below, but you require more tissue than is indicated, you must include a detailed rationale supporting your request outside of the acceptable range.

Please note that multiple areas, such as hippocampal subfields, and thalamic and hypothalamic nuclei are small, and many investigators are interested in studying these regions. Ensure that your requests are anatomically possible before submitting. If you need guidance on this issue, please contact the NIH NeuroBioBank.

Method	Accepted Tissue Amount/Region/Subject
FACS sorting with NeuN	≤ 600mg of gray matter
HITS-CLIP	≤ 300mg
Immunoblot	≤ 10mg of tissue per protein examined
Immunohistochemistry	Sufficient tissue for ≤ 8 sections per condition (*May be provided as free floating sections, formalin-fixed paraffin-embedded sections, fixed tissue blocks, or paraffin-embedded tissue blocks dependent upon region requested and brain bank*)
Mass Spec:	
Simple Mass Spec with no enrichment or multidimensional fractionation	≤ 15mg
Mass Spec with sucrose density gradient based sub-cellular enrichment	≤ 350mg
Mass Spec with multidimensional separation with or without isobaric labeling tags (e.g., TMT or iTRAQ)	≤ 150mg
Co-IP with Mass Spec	50 – 500mg
Mass Spec for post-translational modifications	50 – 500mg
Microarray	≤ 5mg
qPCR	≤ 5mg
RNASeq	≤ 60mg