

Experiment involves the transfer of unnatural drug resistant trait to microorganisms that compromises disease control efforts

No

Yes

Requires Institutional Biosafety Committee Approval, RAC Review, and NIH Director approval before Initiation

Experiment involves cloning of toxin Molecules with Lethal Dose Fifty of Less than 100 nanograms per Kilogram Body Weight (e.g., botulinum, tetanus, diphtheria, Shigella dysenteriae)

No

Yes

Require NIH/OBA and Institutional Biosafety Committee Approval prior to Initiation

Experiment Involves the Deliberate Transfer of Recombinant DNA or derived Recombinant DNA, into One or More Human Research Participants (e.g., Human Gene Transfer)

No

Yes

Require IBC and Institutional Review Board Approvals and RAC Review Before Research Participant Enrollment

Experiment Involves Using:

- ✓ Risk Groups 2-4/Restricted Agents as Host-Vector Systems
- ✓ Risk Groups 2-4/Restricted Agents cloned into Nonpathogenic Prokaryotic/Lower Eukaryotic Host-Vector System
- ✓ Infectious DNA/RNA in Tissue Culture
- ✓ Whole Animals
- ✓ Whole Plants
- ✓ More than 10 Liters of Culture

No

Yes

Require Institutional Biosafety Committee Approval Before Initiation

Experiment involves Recombinant DNA with no more than two thirds of an eukaryotic viral genome

No

Yes

Require IBC Notice Simultaneous with Initiation

Exempt

Register with the IBC