

## Comprehensive Compliance Checklist for a Radiopharmaceutical Company

	Quality Management System (QMS)
1.	Documented Quality Policy and Objectives ☐ Yes ☐ No
2.	Implementation of a robust Quality Manual aligned with radiopharmaceutical
	regulatory requirements □ Yes □ No
3.	Defined roles and responsibilities for radiation safety and quality oversight $\Box$
	Yes □ No
4.	Periodic Management Reviews of the QMS
5.	Change Control procedures in place and effectively managed $\ \square$ Yes $\ \square$ No
	Good Manufacturing Practices (GMP) for Radiopharmaceuticals
6.	Compliance with FDA 21 CFR Parts 210 & 211 / EU GMP guidelines specific to
	radiopharmaceuticals □ Yes □ No
7.	Controlled manufacturing environment with radiation protection measures $\Box$
	Yes □ No
8.	Qualification and maintenance of hot cells, isolators, and shielded equipment $\qed$
	Yes □ No
9.	Batch records and Master Manufacturing Records (MMRs) documented and
	reviewed □ Yes □ No
10.	In-process and final product testing protocols for radioactive materials $\Box$ Yes
	□ No
	Radiation Safety and Compliance
11.	Compliance with NRC and state-specific radiation safety regulations $\Box$ Yes
	□ No
12.	Radiation protection program implementation (ALARA principles) $\square$ Yes $\square$
	No
13.	Proper handling, storage, and disposal of radioactive materials $\ \square$ Yes $\ \square$ No
14.	Dosimetry monitoring and employee safety measures $\Box$ Yes $\Box$ No
15.	Regular radiation safety audits and inspections $\square$ Yes $\square$ No



## **Good Laboratory Practices (GLP)**

16.	Calibration and maintenance of radiochemical analysis equipment $\Box$ Yes $\Box$ No
17.	Data integrity practices (ALCOA principles) for radioactive testing $\ \square$ Yes $\ \square$ No
18.	Proper storage and retention of laboratory records and radioactive samples $\Box$ Yes $\Box$ No
19.	Qualification of analytical methods for radiochemical purity and sterility $\square$ Yes $\square$ No
20.	Good Distribution Practices (GDP) for Radiopharmaceuticals  Compliance with WHO and EU GDP guidelines specific to radioactive products  ☐ Yes ☐ No
21.	Controlled transport of radiopharmaceuticals with time and temperature monitoring $\square$ Yes $\square$ No
22.	Qualified suppliers and distributors for radiopharmaceutical logistics $\hfill\square$ Yes $\hfill\square$ No
23.	Traceability and recall procedures for radioactive products $\ \square$ Yes $\ \square$ No
24.	Vendor and Supplier Management  Qualification and approval of vendors for radioactive components and services  ☐ Yes ☐ No
25.	Periodic audits of Contract Manufacturing Organizations (CMOs) and logistics partners   Yes   No
26.	Quality Agreements in place with nuclear reactor suppliers and isotope producers $\square$ Yes $\square$ No
27.	<b>Training and Competency</b> Radiation safety training programs for all employees handling radioactive materials □ Yes □ No
28.	Job-specific GMP, GDP, and radiation safety competency assessments $\hfill\Box$ Yes $\hfill\Box$ No
29.	Regular refresher training on handling radiopharmaceuticals $\Box$ Yes $\Box$ No
30.	Internal and External Audits  Annual internal audit program covering GMP, GDP, and radiation safety □ Yes □ No



31. Risk-based audit scheduling and execution for radiopharmaceutical operations ☐ Yes ☐ No
32. Corrective and Preventive Actions (CAPA) management post-audit ☐ Yes ☐ No
Risk Management and Continuous Improvement  33. Implementation of ICH Q9 Quality Risk Management principles for radioactive materials □ Yes □ No
34. Risk assessments for radiation exposure and product contamination ☐ Yes ☐ No
35. Ongoing improvement initiatives for radiation safety and quality compliance ☐ Yes ☐ No
Regulatory Compliance and Inspections
36. Preparedness for FDA, NRC, EMA, and other regulatory body inspections ☐ Yes ☐ No
37. Response procedures for regulatory findings and Form 483 observations $\Box$ Yes $\Box$ No
38. Timely submission of regulatory reports for radioactive products ☐ Yes ☐ No
39. Maintenance of regulatory licenses for radioactive materials $\Box$ Yes $\Box$ No
<ul> <li>Environmental, Health, and Safety (EHS)</li> <li>40. Compliance with OSHA, EPA, NRC, and local environmental safety regulations</li> <li>□ Yes □ No</li> </ul>
41. Hazardous material handling and radiation waste disposal procedures ☐ Yes ☐ No
42. Emergency preparedness for radiological incidents □ Yes □ No
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