

Ga-67 Fact Sheet

Gallium-67 Radiochemical Gallium Chloride Solution

Gallium (Ga-67) Chloride

Half-Life: 3.26 days

Gallium-67 Radiochemical Gallium Chloride Solution

Gallium chloride is usually complexed with sodium citrate to produce gallium citrate. It is useful for imaging various inflammatory conditions and tumours such as Hodgkin's disease, lymphoma (with the exception of lymphocytic), hepatoma and bronchogenic carcinoma.

MDS Nordion has an unparalleled base of technical expertise and production capabilities. State-of-the-art facilities provide a reliable supply of isotopes to customers around the world. Our strong focus on customer service and quality has made us a world leader.

Process Data

Nuclear Reaction

$^{68}\text{Zn} (p,2n) ^{67}\text{Ga}$

Assay

High resolution gamma spectrometry at 184.6 keV

Product Specification

Chemical Form

Gallium chloride in dilute HCl

Normality

0.1 N \pm 0.05 N HCl

Specific Activity*

≥ 1000 Ci/g

Activity Concentration*

≥ 40 mCi/mL

Radiopurity*

$^{67}\text{Ga} \geq 99.4\%$

$^{66}\text{Ga} \leq 0.5\%$

Others $\leq 0.1\%$

Chemical Purity*

Fe, Zn, Cu each ≤ 0.2 $\mu\text{g}/\text{mCi}$ ^{67}Ga

*Activity and radiopurity specifications are at noon, Pacific Time, one day after shipment.

Packaging

- Hypovial – crimp cap glass vial with septum (6 mL, 10 mL)
- Microvial (1 mL, 3 mL)
(Other vial options are available).

Availability

Dispensed daily

Product Origin

Vancouver, Canada

World Class Delivery Service

MDS Nordion has a world class distribution system that includes a unique, software-based order management system. Carefully managed transportation logistics ensure products reach their destination on time.

Please note that the radiochemicals listed are not tested for sterility or pyrogenicity. Verification of their suitability for use in humans is the sole responsibility of the purchaser.

Gallium-67 Decay Table Half-Life: 3.26 days

	HOURS:	0	1	2	3	4	5	6	7	8	9	10	11
	0	1.0000	0.9912	0.9824	0.9738	0.9652	0.9567	0.9482	0.9399	0.9316	0.9234	0.9152	0.9071
	0.5	0.8991	0.8912	0.8834	0.8756	0.8678	0.8602	0.8526	0.8451	0.8376	0.8302	0.8229	0.8157
	1	0.8085	0.8013	0.7943	0.7873	0.7803	0.7734	0.7666	0.7598	0.7531	0.7465	0.7399	0.7334
	1.5	0.7269	0.7205	0.7142	0.7079	0.7016	0.6954	0.6893	0.6832	0.6772	0.6712	0.6653	0.6594
	2	0.6536	0.6478	0.6421	0.6365	0.6309	0.6253	0.6198	0.6143	0.6089	0.6035	0.5982	0.5929
	2.5	0.5877	0.5825	0.5774	0.5723	0.5672	0.5622	0.5573	0.5524	0.5475	0.5427	0.5379	0.5331
	3	0.5284	0.5238	0.5191	0.5146	0.5100	0.5055	0.5011	0.4966	0.4923	0.4879	0.4836	0.4794
	3.5	0.4751	0.4709	0.4668	0.4627	0.4586	0.4545	0.4505	0.4466	0.4426	0.4387	0.4348	0.4310
	4	0.4272	0.4234	0.4197	0.4160	0.4123	0.4087	0.4051	0.4015	0.3980	0.3945	0.3910	0.3875
DAYS	4.5	0.3841	0.3807	0.3774	0.3740	0.3707	0.3675	0.3642	0.3610	0.3578	0.3547	0.3516	0.3485
	5	0.3454	0.3423	0.3393	0.3363	0.3334	0.3304	0.3275	0.3246	0.3217	0.3189	0.3161	0.3133
	5.5	0.3105	0.3078	0.3051	0.3024	0.2997	0.2971	0.2945	0.2919	0.2893	0.2867	0.2842	0.2817
	6	0.2792	0.2768	0.2743	0.2719	0.2695	0.2671	0.2648	0.2624	0.2601	0.2578	0.2556	0.2533
	6.5	0.2511	0.2488	0.2467	0.2445	0.2423	0.2402	0.2381	0.2360	0.2339	0.2318	0.2298	0.2278
	7	0.2257	0.2238	0.2218	0.2198	0.2179	0.2160	0.2141	0.2122	0.2103	0.2084	0.2066	0.2048
	7.5	0.2030	0.2012	0.1994	0.1977	0.1959	0.1942	0.1925	0.1908	0.1891	0.1874	0.1858	0.1841
	8	0.1825	0.1809	0.1793	0.1777	0.1762	0.1746	0.1731	0.1715	0.1700	0.1685	0.1670	0.1656
	8.5	0.1641	0.1627	0.1612	0.1598	0.1584	0.1570	0.1556	0.1542	0.1529	0.1515	0.1502	0.1489
	9	0.1475	0.1462	0.1450	0.1437	0.1424	0.1412	0.1399	0.1387	0.1375	0.1362	0.1350	0.1338

The half-life values stated are as of time of publication. MDS Nordion values may vary.

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