

Muons in lanthanum bromide (LaBr₃)

	$\langle Z/A \rangle$	ρ [g/cm ³]	I [eV]	a	$k = m_s$	x_0	x_1	\bar{C}	δ_0
	0.42787	5.290	454.5	0.21967	3.0000	0.3581	3.0000	5.6997	0.00
T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm ²]		
				[MeV cm ² /g]					
10.0 MeV	4.704×10^1	4.709				4.709		1.201×10^0	
14.0 MeV	5.616×10^1	3.715				3.715		2.167×10^0	
20.0 MeV	6.802×10^1	2.932				2.932		4.004×10^0	
30.0 MeV	8.509×10^1	2.300				2.300		7.907×10^0	
40.0 MeV	1.003×10^2	1.978				1.978		1.262×10^1	
80.0 MeV	1.527×10^2	1.510				1.510		3.648×10^1	
100. MeV	1.764×10^2	1.428				1.428		5.013×10^1	
140. MeV	2.218×10^2	1.350				1.351		7.906×10^1	
200. MeV	2.868×10^2	1.316				1.316		1.242×10^2	
237. MeV	3.260×10^2	1.313				1.313			<i>Minimum ionization</i>
300. MeV	3.917×10^2	1.319	0.000		0.000	1.319		2.003×10^2	
400. MeV	4.945×10^2	1.340	0.000		0.000	1.340		2.755×10^2	
800. MeV	8.995×10^2	1.429	0.001		0.000	1.430		5.640×10^2	
1.00 GeV	1.101×10^3	1.464	0.001		0.000	1.465		7.021×10^2	
1.40 GeV	1.502×10^3	1.519	0.001	0.000	0.001	1.521		9.698×10^2	
2.00 GeV	2.103×10^3	1.577	0.002	0.001	0.001	1.582		1.356×10^3	
3.00 GeV	3.104×10^3	1.643	0.004	0.003	0.001	1.651		1.974×10^3	
4.00 GeV	4.104×10^3	1.687	0.006	0.005	0.002	1.700		2.570×10^3	
8.00 GeV	8.105×10^3	1.787	0.015	0.015	0.003	1.820		4.836×10^3	
10.0 GeV	1.011×10^4	1.817	0.020	0.021	0.004	1.862		5.922×10^3	
14.0 GeV	1.411×10^4	1.859	0.030	0.033	0.006	1.928		8.031×10^3	
20.0 GeV	2.011×10^4	1.901	0.047	0.054	0.008	2.010		1.108×10^4	
30.0 GeV	3.011×10^4	1.945	0.077	0.095	0.012	2.128		1.591×10^4	
40.0 GeV	4.011×10^4	1.974	0.109	0.138	0.015	2.237		2.049×10^4	
80.0 GeV	8.011×10^4	2.039	0.246	0.332	0.030	2.648		3.689×10^4	
100. GeV	1.001×10^5	2.060	0.319	0.437	0.037	2.852		4.417×10^4	
140. GeV	1.401×10^5	2.090	0.468	0.652	0.051	3.261		5.728×10^4	
200. GeV	2.001×10^5	2.121	0.702	0.992	0.073	3.888		7.411×10^4	
237. GeV	2.373×10^5	2.136	0.848	1.201	0.086	4.273			<i>Muon critical energy</i>
300. GeV	3.001×10^5	2.156	1.101	1.562	0.109	4.929		9.691×10^4	
400. GeV	4.001×10^5	2.182	1.513	2.153	0.146	5.994		1.153×10^5	
800. GeV	8.001×10^5	2.243	3.218	4.575	0.294	10.332		1.655×10^5	
1.00 TeV	1.000×10^6	2.263	4.095	5.815	0.369	12.543		1.831×10^5	
1.40 TeV	1.400×10^6	2.293	5.852	8.289	0.523	16.959		2.104×10^5	
2.00 TeV	2.000×10^6	2.326	8.540	12.065	0.757	23.689		2.402×10^5	
3.00 TeV	3.000×10^6	2.363	13.030	18.340	1.158	34.893		2.748×10^5	
4.00 TeV	4.000×10^6	2.390	17.581	24.683	1.565	46.221		2.996×10^5	
8.00 TeV	8.000×10^6	2.457	35.936	50.185	3.253	91.831		3.598×10^5	
10.0 TeV	1.000×10^7	2.478	45.187	63.005	4.120	114.792		3.793×10^5	
14.0 TeV	1.400×10^7	2.512	63.640	88.584	5.901	160.638		4.086×10^5	
20.0 TeV	2.000×10^7	2.547	91.487	127.119	8.630	229.786		4.397×10^5	
30.0 TeV	3.000×10^7	2.589	137.847	191.235	13.347	345.020		4.749×10^5	
40.0 TeV	4.000×10^7	2.619	184.379	255.507	18.176	460.683		4.999×10^5	
80.0 TeV	8.000×10^7	2.693	370.802	512.781	38.344	924.621		5.600×10^5	
100. TeV	1.000×10^8	2.717	464.178	641.540	48.762	1157.198		5.793×10^5	