

**Centre for AIDS Reagents**

**Data Sheet**

<b>NAME:</b>	SIVmac 239 Gag
<b>REPOSITORY REFERENCE:</b>	ARP7120.1-125
<b>VIRUS STRAIN:</b>	SIVmac239
<b>PROVIDED:</b>	125 vials, 1.0 mg each, lyophilized.
<b>SPECIAL CHARACTERISTICS:</b>	Series of peptides comprising the SIVmac239 Gag region. Most of the peptides are 15 amino acids in length, with 11-amino acid overlaps between sequential peptides. Most peptides are >80% pure. Peptides that are difficult to solubilize can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution.
<b>SOLUBLILITY:</b>	Please note: Cys and Met containing peptide sequences are highly unstable when stored in DMSO for prolonged periods of time; peptide decay is often observed within days to weeks. If DMSO is required, we recommend freshly-prepared working solutions from freeze dried aliquots of these peptides, and prepared pools.
<b>SOURCE:</b>	DAIDS, NIAID.
<b>ACKNOWLEDGEMENTS:</b>	Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website in the "Acknowledgement" section at:-  <a href="http://www.nibsc.ac.uk/spotlight/centre_for_aids_reagents.aspx">www.nibsc.ac.uk/spotlight/centre_for_aids_reagents.aspx</a>  Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR, this can be by e-mail or printed copy.

	SEQUENCE	LOT #	Solubility Data						
			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
<b>7120.1</b>	MGVRNSVLSGKKADE	060335	1590.83	96.5%	75.86	+	+	+	+
<b>7120.2</b>	NSVLSGKKADELEKI	060336	1630.87	94.0%	85.85	+	+	+	+
<b>7120.3</b>	SGKKADELEKIRLRP	060337	1740.05	99.3%	75.37	+	+	+	+
<b>7120.4</b>	ADELEKIRLRPNGKK	060338	1767.08	87.9%	73.05	+	+	+	+
<b>7120.5</b>	EKIRLRPNGKKKYML	060339	1874.34	98.7%	67.04	+	+	+	+
<b>7120.6</b>	LRPNGKKKYMLKHVV	060340	1811.29	97.0%	59.12	+	+	+	+
<b>7120.7</b>	GKKKYMLKHVVWAAN	060341	1773.19	91.4%	71.59	+	+	+	+
<b>7120.8</b>	YMLKHVVWAANELDR	060342	1845.17	97.6%	80.57	+	-	-	+
<b>7120.9</b>	HVVWAANELDRFGLA	060343	1697.93	93.7%	80.18	+	+	+	+
<b>7120.10</b>	AANELDRFGLAESLL	060344	1618.82	97.5%	85.19	+	+	+	+
<b>7120.11</b>	LDRFGLAESLLENKE	060345	1733.9	80.8%	79.4	+	+	+	+
<b>7120.12</b>	GLAESLLENKEGCQK	060346	1618.83	99.8%	63.11	+	+	+	+
<b>7120.13</b>	SLENKEGCQKILSV	060347	1660.96	99.6%	82.01	-	-	-	+
<b>7120.14</b>	NKEGCQKILSVLAPL	060348	1612.96	90.6%	82.70	+	+	+	+
<b>7120.15</b>	CQKILSVLAPLVPTG	060349	1538.92	97.5%	83.58	+	+	+	+

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	SEQUENCE	LOT #				Solubility Data			
			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
7120.16	LSVLAPLVPTGSENL	060350	1509.78	99.1%	71.67	+	+	+	+
7120.17	APLVPTGSENLKSLY	060351	1588.84	97.4%	87.45	+	+	+	+
7120.18	PTGSENLKSLYNTVC	060352	1625.82	96.2%	80.38	+	-	+	+
7120.19	ENLKSLYNTVCVIWC	060353	1785.1	96.5%	81.4	+	+	+	+
7120.20	SLYNTVCVIWCIAE	060354	1751.1	80.2%	87.8	-	-	-	+
7120.21	TVCVIWCIAEELVK	060355	1758.13	92.7%	65.96	+	-	+	+
7120.22	IWCIAEELVKHTEE	060356	1852.11	95.3%	69.11	+	+	+	+
7120.23	HAEELVKHTEELAKQI	060357	1776.98	99.9%	66.51	+	+	+	+
7120.24	KVKHTEELAKQIVQRH	060358	1831.12	97.0%	64.32	+	+	+	+
7120.25	TEELAKQIVQRHLVVE	060359	1779.04	93.9%	75.84	+	+	+	+
7120.26	KQIVQRHLVVETGTT	060360	1708.99	94.5%	76.64	+	+	+	+
7120.27	QRHLVVETGTTETMP	060361	1698.93	84.7%	82.22	+	+	+	+
7120.28	VVETGTTETMPKTSR	060362	1636.86	92.2%	78.44	+	+	+	+
7120.29	GTTETMPKTSRPTAP	060363	1574.79	96.8%	69.05	+	+	+	+
7120.30	TMPKTSRPTAPSSGR	060364	1573.80	96.3%	72.28	+	+	+	+
7120.31	TSRPTAPSSGRGGNY	060365	1507.59	97.6%	78.60	+	+	+	+

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			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
7120.32	TAPSSGRGGNYPVQQ	060366	1518.62	97.0%	80.95	+	+	+	+
7120.33	SGRGGNYPVQQIGGN	060367	1503.61	96.1%	83.17	+	+	+	+
7120.34	GNYPVQQIGGNYVHL	060368	1658.85	81.8%	99.52	+	-	-	+
7120.35	VQQIGGNYVHLPLSP	060369	1621.87	99.4%	94.56	+	+	+	+
7120.36	GGNYVHLPLSPRTLN	060370	1637.87	98.0%	75.75	+	+	+	+
7120.37	VHLPLSPRTLNAWVK	060371	1731.09	96.8%	71.38	+	+	+	+
7120.38	LSPRTLNAWVKLIEE	060372	1769.09	95.3%	81.06	+	-	+	+
7120.39	TLNAWVKLIEEKKFG	060373	1776.13	89.4%	83.53	+	+	+	+
7120.40	WVKLIEEKKFGAEVV	060374	1775.14	85.8%	85.79	-	-	+	+
7120.41	IEEKKFGAEVVPGFQ	060375	1677.93	83.6%	84.08	+	+	+	+
7120.42	KFGAEVVPGFQALSE	060376	1578.80	92.1%	72.08	+	+	+	+
7120.43	EVVPGFQALSEGCTP	060377	1533.73	89.8%	85.16	+	+	+	+
7120.44	GFQALSEGCTPYDIN	060378	1614.76	97.9%	78.77	-	-	+	+
7120.45	LSEGCTPYDINQMLN	060379	1697.9	88.3%	84.4	+	+	+	+
7120.46	CTPYDINQMLNCVGD	060380	1685.9	43.9%	84.8	-	-	-	+
7120.47	DINQMLNCVGDHQAA	060381	1628.8	81.7%	85.9	-	-	-	-

	SEQUENCE	LOT #				Solubility Data			
			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
<b>7120.48</b>	MLNCVGDHQAAMQII	060382	1644.0	95.2%	81.0	-	-	-	+
<b>7120.49</b>	VGDHQAAMQIIRDII	060383	1679.97	96.8%	82.93	-	-	-	+
<b>7120.50</b>	QAAMQIIRDIINEEA	060384	1714.97	82.5%	88.62	-	-	+	-
<b>7120.51</b>	QIIRDIINEEAADWD	060385	1800.96	86.8%	90.05	-	-	-	+
<b>7120.52</b>	DIINEEAADWDLQHP	060386	1765.9	81.1%	85.8	-	-	-	+
<b>7120.53</b>	EEAADWDLQHPQPAP	060387	1703.80	98.8%	87.07	+	+	+	+
<b>7120.54</b>	DWDLQHPQPAPQQGQ	060388	1744.86	92.6%	96.68	+	+	+	+
<b>7120.55</b>	QHPQPAPQQGQLREP	060389	1710.88	99.9%	84.18	+	+	+	+
<b>7120.56</b>	PAPQQQLREPSGSD	060390	1566.66	86.8%	72.58	+	+	+	+
<b>7120.57</b>	QQQLREPSGSDIAGT	060391	1515.61	82.3%	82.76	+	+	+	+
<b>7120.58</b>	REPSGSDIAGTTSSV	060392	1463.53	93.6%	73.81	+	+	+	+
<b>7120.59</b>	GSDIAGTTSSVDEQI	060393	1479.5	90.7%	82.9	+	+	+	+
<b>7120.60</b>	AGTTSSVDEQIQWMY	060394	1715.9	85.6%	88.8	-	-	-	+
<b>7120.61</b>	SSVDEQIQWMYRQQN	060395	1912.08	87.9%	93.16	+	-	+	+
<b>7120.62</b>	EQIQWMYRQQNPIPV	060396	1930.23	98.6%	88.16	+	+	+	+
<b>7120.63</b>	WMYRQQNPIPVGNIY	060397	1879.19	95.9%	85.97	-	-	+	+

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			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
7120.64	QQNPIPVGNIYRRWI	060398	1854.16	89.0%	83.09	+	+	+	+
7120.65	IPVGNIYRRWIQLGL	060399	1798.18	98.3%	84.72	+	+	+	+
7120.66	NIYRRWIQLGLQKCV	060400	1890.29	96.5%	79.07	+	-	+	+
7120.67	RWIQLGLQKCVRMYN	060401	1908.33	90.3%	81.73	+	-	+	+
7120.68	LGLQKCVRMYNPTNI	060402	1750.12	94.1%	79.95	+	+	+	+
7120.69	KCVRMYNPTNILDVK	060403	1794.18	97.6%	77.67	+	-	+	+
7120.70	MYNPTNILDVKQGP	060404	1718.02	98.6%	81.29	+	+	+	+
7120.71	TNILDVKQGPKEPFQ	060405	1713.97	85.8%	80.83	+	+	+	+
7120.72	DVKQGPKEPFQSYVD	060406	1736.91	96.8%	83.18	+	+	+	+
7120.73	GPKEPFQSYVDRFYK	060407	1861.10	93.0%	80.67	+	+	+	+
7120.74	PFQSYVDRFYKSLRA	060408	1877.15	98.1%	81.28	+	-	+	+
7120.75	YVDRFYKSLRAEQTD	060409	1891.09	94.1%	79.54	-	-	+	+
7120.76	FYKSLRAEQTDAAVK	060410	1726.97	94.7%	73.73	+	+	+	+
7120.77	LRAEQTDAAVKNWMT	060411	1733.98	97.3%	73.37	+	+	+	+
7120.78	QTDAAVKNWMTQTLL	060412	1719.99	64.6%	89.46	+	-	-	+
7120.79	AVKNWMTQTLLIQNA	060413	1731.1	82.9%	78.5	+	-	-	-

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			Molecular Weight g/mol	Purity (%)	Peptide Content[%]	Water	PBS	10% Acetic Acid	DMSO
<b>7120.80</b>	WMTQTLLIQNANPDC	060414	1748.0	59.0%	83.2	-	-	-	+
<b>7120.81</b>	TLLIQNANPDCKLVL	060415	1655.0	89.1%	82.9	-	-	-	+
<b>7120.82</b>	QNANPDCKLVKGLG	060416	1569.85	88.6%	75.43	+	+	+	+
<b>7120.83</b>	PDCKLVKGLGVNPT	060417	1553.89	91.2%	77.08	+	+	+	+
<b>7120.84</b>	LVLKGLGVNPTLEEM	060418	1612.96	94.8%	70.56	+	+	+	+
<b>7120.85</b>	GLGVNPTLEEMLTAC	060419	1547.81	96.5%	87.59	-	-	-	+
<b>7120.86</b>	NPTLEEMLTACQGVG	060420	1562.79	95.9%	93.04	-	-	-	+
<b>7120.87</b>	EEMLTACQVGGPGQ	060421	1476.65	86.7%	87.96	+	-	+	+
<b>7120.88</b>	TACQVGGPGQKARL	060422	1442.66	85.7%	81.69	+	+	+	+
<b>7120.89</b>	GVGGPGQKARLMAEA	060423	1441.68	98.9%	81.37	+	+	+	+
<b>7120.90</b>	PGQKARLMAEALKEA	060424	1612.93	96.1%	67.21	+	+	+	+
<b>7120.91</b>	ARLMAEALKEALAPV	060425	1582.94	95.9%	80.42	+	+	+	+
<b>7120.92</b>	AEALKEALAPVPIPF	060426	1565.89	96.2%	76.82	+	+	+	+
<b>7120.93</b>	KEALAPVPIPFAAAQ	060427	1522.82	98.1%	77.12	+	+	+	+
<b>7120.94</b>	APVPIPFAAAQQRGP	060428	1519.78	99.5%	64.66	+	+	+	+
<b>7120.95</b>	IPFAAAQQRGPRKPI	060429	1649.97	95.7%	80.88	+	+	+	+

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7120.96	AAQQRGPRKPIKCWN	060430	1753.07	96.4%	68.66	+	+	+	+
7120.97	RGPRKPIKCWNCGKE	060431	1772.13	99.5%	74.75	+	+	+	+
7120.98	KPIKCWNCGKEGHS	060432	1657.93	97.0%	70.61	+	+	+	+
7120.99	CWNCGKEGHSARQCR	060433	1734.95	96.4%	73.85	+	+	+	+
7120.100	GKEGHSARQCRAPRR	060434	1708.93	90.5%	69.51	+	+	+	+
7120.101	HSARQCRAPRRQGCW	060435	1812.07	97.2%	64.60	+	+	+	+
7120.102	QCRAPRRQGCWKCGK	060436	1777.12	93.5%	71.39	+	+	+	+
7120.103	PRRQGCWKCGKMDHV	060437	1801.15	96.5%	48.92	+	+	+	+
7120.104	GCWKCGKMDHVMAKC	060438	1697.11	98.7%	76.06	+	+	+	+
7120.105	CGKMDHVMAKCPDRQ	060439	1719.06	96.6%	73.23	+	+	+	+
7120.106	DHVMAKCPDRQAGFL	060440	1687.97	95.8%	84.93	+	+	+	+
7120.107	AKCPDRQAGFLGLGP	060441	1529.79	97.8%	84.10	+	+	+	+
7120.108	DRQAGFLGLGPWGKK	060442	1629.90	97.7%	82.06	+	+	+	+
7120.109	GFLGLGPWGKKPRNF	060443	1674.0	97.4%	80.14	+	+	+	+
7120.110	LGPWGKKPRNFPMAQ	060444	1727.08	98.5%	78.36	+	+	+	+
7120.111	GKKPRNFPMAQVHQG	060445	1694.99	96.5%	72.99	+	+	+	+

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7120.112	RNFPMAQVHQGLMPT	060446	1727.05	98.0%	84.79	+	+	+	+
7120.113	MAQVHQGLMPTAPPE	060447	1606.9	96.3%	78.51	+	+	+	+
7120.114	HQGLMPTAPPEDPAV	060448	1559.77	98.7%	87.63	+	+	+	+
7120.115	MPTAPPEDPAVDLLK	060449	1593.87	100.0%	84.33	+	+	+	+
7120.116	PPEDPAVDLLKNYMQ	060450	1729.98	97.0%	90.74	+	+	+	+
7120.117	PAVDLLKNYMQLGKQ	060451	1718.06	97.4%	76.19	+	+	+	+
7120.118	LLKNYMQLGKQQREK	060452	1877.26	100.0%	56.22	+	+	+	+
7120.119	YMLGKQQREKQRES	060453	1909.17	99.9%	70.96	+	+	+	+
7120.120	GKQQREKQRESREKP	060454	1884.10	97.0%	72.62	+	+	+	+
7120.121	REKQRESREKPYKEV	060455	1962.21	100.0%	75.24	+	+	+	+
7120.122	RESREKPYKEVTEDL	060456	1879.07	93.3%	73.46	+	+	+	+
7120.123	EKPYKEVTEDLLHLN	060457	1828.07	79.0%	71.84	+	+	+	+
7120.124	KEVTEDLLHLNSLFG	060458	1714.95	98.1%	82.86	+	-	+	+
7120.125	EDLLHLNSLFGGDQ	060459	1557.69	97.9%	93.68	-	-	+	+

Determination of solubility: appr. 0.25 mg of the respective peptide was incubated with 1ml of solvent.

Solubility was assessed by visual inspection of the resulting solution/ suspension.

"+": complete dissolution

"-": incomplete dissolution

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