



# Certificate of Conformance

This certifies that the spectral emission lines emitted by the HG-2, XE-2, NE-2, KR-2, AR-2 light sources are atomic emission lines of natural abundance. These wavelengths of these atomic emission lines are determined by quantum mechanics and are fixed as a function of time, and thus do not require NIST-certification.

The table below lists the useful wavelengths for the lamps that may be verified at the NIST website:

[http://physics.nist.gov/cgi-bin/AtData/lines\\_form](http://physics.nist.gov/cgi-bin/AtData/lines_form)

Table of Emission Lines for Spectrometer Wavelength Calibration Sources									
Peak	Lamp	Peak	Lamp	Peak	Lamp	Peak	Lamp	Peak	Lamp
253.652	Hg	480.702	Xe	692.947	Ne	892.869	Kr	1362.266	Ar
296.728	Hg	482.971	Xe	703.241	Ne	904.545	Xe	1363.422	Kr
302.150	Hg	484.329	Xe	717.394	Ne	912.297	Ar	1365.706	Xe
313.155	Hg	491.651	Xe	724.512	Ne	916.265	Xe	1367.855	Ar
334.148	Hg	492.315	Xe	733.930	Xe	922.450	Ar	1371.858	Ar
341.790	Ne	503.135	Ne	738.600	Xe	935.422	Ar	1382.572	Ar
342.391	Ne	503.775	Ne	739.379	Xe	965.779	Ar	1390.748	Ar
344.770	Ne	508.038	Ne	740.040	Xe	978.450	Ar	1409.364	Ar
345.076	Ne	511.367	Ne	743.890	Ne	979.970	Xe	1414.244	Xe
345.419	Ne	511.650	Ne	747.244	Ne	992.319	Xe	1442.679	Kr
346.052	Ne	540.056	Ne	748.887	Ne	1047.005	Ar	1473.281	Xe
346.658	Ne	546.074	Hg	753.577	Ne	1067.357	Ar	1473.444	Kr
347.257	Ne	556.222	Kr	754.404	Ne	1083.837	Xe	1504.65	Ar
349.806	Ne	557.029	Kr	755.979	Xe	1107.887	Ar	1517.269	Ar
350.121	Ne	576.441	Ne	758.468	Xe	1117.752	Ne	1520.310	Kr
351.519	Ne	576.960	Hg	758.741	Kr	1144.183	Ar	1532.934	Ar
352.047	Ne	579.066	Hg	760.155	Kr	1148.811	Ar	1537.204	Kr
359.353	Ne	582.015	Ne	764.391	Xe	1152.275	Ne	1541.839	Xe
360.017	Ne	585.249	Ne	768.525	Kr	1166.871	Ar	1598.949	Ar
363.366	Ne	587.096	Kr	769.454	Kr	1171.949	Ar	1605.328	Xe
365.015	Hg	588.189	Ne	780.265	Xe	1181.938	Kr	1620.872	Kr
368.573	Ne	594.483	Ne	785.482	Kr	1211.233	Ar	1647.29	Xe
370.122	Ne	597.553	Ne	788.132	Xe	1213.974	Ar	1656.023	Xe
404.656	Hg	602.000	Ne	791.343	Kr	1220.353	Kr	1672.815	Xe
407.783	Hg	607.433	Ne	796.734	Xe	1234.339	Ar	1689.676	Kr
431.958	Kr	609.616	Ne	805.726	Xe	1243.932	Ar	1694.058	Ar
435.833	Hg	612.884	Ne	805.950	Kr	1248.766	Ar	1704.288	Ar
436.264	Kr	614.306	Ne	806.134	Xe	1262.339	Xe	1755.350	Kr
437.612	Kr	616.359	Ne	810.436	Kr	1270.228	Ar	1763.882	Xe
439.997	Kr	621.728	Ne	819.006	Kr	1273.342	Ar	1785.738	Kr
445.392	Kr	626.649	Ne	823.163	Xe	1280.274	Ar	1790.45	Xe
446.369	Kr	630.479	Ne	826.324	Kr	1295.666	Ar	1800.223	Kr
450.235	Kr	633.442	Ne	826.652	Xe	1300.826	Ar	1809.09	Xe
452.186	Xe	638.299	Ne	829.811	Kr	1317.741	Kr	1816.733	Kr
462.420	Xe	640.225	Ne	837.761	Ne	1322.811	Ar	1832.53	Xe
466.849	Xe	650.653	Ne	849.536	Ne	1322.811	Ar	1959.94	Xe
469.097	Xe	653.288	Ne	866.794	Ar	1327.264	Ar	1984.638	Xe
469.804	Xe	659.895	Ne	877.675	Kr	1331.321	Ar	2190.851	Kr
473.415	Xe	667.828	Ne	878.375	Ne	1336.711	Ar		
479.262	Xe	671.704	Ne	881.941	Xe	1350.419	Ar		

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