

**TABLE 1.** Alexandrite reference sample information.

Country of origin	Total number of samples/data points	Sample numbers from different suppliers	Sample Provenance
Russia	43/153	41	Samples were borrowed from Warren Boyd, who acquired them in 1990s as a mining consultant at the Malysheva mine.
		1	Sample was borrowed from Spectrum Fine Jewelry & Exotic Gems, a specialty retailer headquartered in Carlsbad, California, with nine locations in tourist-related towns of southeastern Alaska along the famed Inside Passage and three stores in St. Thomas, U.S. Virgin Islands.
		1	Sample was borrowed from the GIA Museum.
Brazil	176/528	17	Samples were borrowed from Evan Caplan, who obtained them from a source directly connected to the mine owner in Brazil.
		15	Samples were borrowed from Nilam Alawdeen, the owner of N. Alawdeen Ltd. since 1950. He represents the JJA and serves on the board of CIBJO as the vice president of the Coloured Stone Commission. He is also the vice chairman of JGS.
		140	Sample was borrowed from Spectrum Fine Jewelry & Exotic Gems, a specialty retailer headquartered in Carlsbad, California, with nine locations in tourist-related towns of southeastern Alaska along the famed Inside Passage and three stores in St. Thomas, U.S. Virgin Islands.
		4	Samples were borrowed from the GIA Museum.
Sri Lanka	33/173	8	Samples were borrowed from LC Gems Collection, Inc., a Sri Lankan gem company with a subsidiary in Los Angeles.
		3	Samples were borrowed from Nilam Alawdeen, the owner of N. Alawdeen Ltd. since 1950. He represents the JJA and serves on the board of CIBJO as vice president of the Coloured Stone Commission. He is also the vice chairman of JGS.
		9	Samples were borrowed from Chandika Thambugala, who is a Sri Lankan dealer.
		13	Samples were borrowed from the GIA Museum.
India	27/81	2	Samples were borrowed from LC Gems Collection, Inc., a Sri Lankan gem company with a subsidiary in Los Angeles.
		2	Samples were borrowed from Nilam Alawdeen, the owner of N. Alawdeen Ltd. since 1950. He represents the JJA and serves on the board of CIBJO as vice president of the Coloured Stone Commission. He is also the vice chairman of JGS.
		1	Sample was borrowed from Shane F. McClure.
		18	Samples were borrowed from Lance Davidson of Davidson Inc.
Tanzania	27/88	4	Samples were borrowed from the GIA Museum.
		21	Samples were borrowed from LC Gems Collection, Inc., a Sri Lankan gem company with a subsidiary in Los Angeles.
		1	Sample was borrowed from Shane F. McClure.
Madagascar	3/9	5	Samples were borrowed from the GIA Museum.
		3	Samples were borrowed from Vincent Pardieu, who bought them in the local trade.
Zimbabwe	5/13	2	Samples were borrowed from Dr. Yusuke Katsurada, who bought them at a gem show in Tokyo from a South African dealer. The dealer said they were obtained from the Novello alexandrite and emerald deposit.
		3	Samples were borrowed from the GIA Museum.
Zambia	9/27	9	Samples were borrowed from Vincent Pardieu, who bought them in the trade in Mahesak, Thailand.
Myanmar	1/3	1	Sample was borrowed from Vincent Pardieu. It was bought from the trade in Mogok.