

## Anhang 1: Die verwendete Kristalle und ihre Ausgangsmaterialien

Nr.	Kristall	Ausgangsmaterialien und deren Reinheitsgrade	Lieferfirma	Bemerkungen
1	undot. CsCdBr <sub>3</sub>	CsBr 99,999% CdBr <sub>2</sub> 99,999%	Aldrich Aldrich	4 verschiedene kristallen. 3 von S. Nikitin
2	0,9%La: CsCdBr <sub>3</sub>	LaBr <sub>3</sub> 99,9% CsBr 99,99% CdBr <sub>2</sub> 99,999%	Heraeus Heraeus Aldrich	
3	1%(La+Eu): CsCdBr <sub>3</sub>	LaBr <sub>3</sub> 99,9% ; Eu (metall) 99,99% CsBr 99,99% CdBr <sub>2</sub> 99,9%	Heraeus; Alfa Heraeus Cerac	
4	0,5%Gd: CsCdBr <sub>3</sub>	Gd (metall) 99,99% CsBr 99,99% CdBr <sub>2</sub> 99,999%	Alfa Heraeus Aldrich	
5	0,5%Pr: CsCdBr <sub>3</sub>	PrBr <sub>3</sub> 99,9% CsBr 99,999% CdBr <sub>2</sub> 99,999%	Cerac Aldrich Aldrich	
6	1%Pr: CsCdBr <sub>3</sub>	PrBr <sub>3</sub> 99,9% CsBr 99,99% CdBr <sub>2</sub> 99,9%	Cerac Heraeus Cerac	Gezogen von J. Neukum
7	0,5%Tm: CsCdBr <sub>3</sub>	TmBr <sub>3</sub> 99,9% CsBr 99,999% CdBr <sub>2</sub> 99,999%	Heraeus Aldrich Aldrich	Gezogen von M. Altwein
8	0,5%Tm + 0,5%Ho CsCdBr <sub>3</sub>	TmBr <sub>3</sub> 99,9% HoBr <sub>3</sub> 99,9% CsBr 99,99% CdBr <sub>2</sub> 99,999%	Heraeus REO Heraeus Aldrich	Gezogen von M. Altwein
9	0,5%Ho CsCdBr <sub>3</sub>	HoBr <sub>3</sub> 99,9% CsBr 99,99% CdBr <sub>2</sub> 99,999%	REO Heraeus Aldrich	Gezogen von M. Altwein
10	1%Eu: CsCdBr <sub>3</sub>	Eu (Metall) 99,99% CsBr 99,999% CdBr <sub>2</sub> 99,999%	Alfa Heraeus Aldrich	
11	1 % Sm	CsBr (99,99%) CdBr <sub>2</sub> (99%) metallisches Sm (99,99%)	Heraeus Cerac Alfa	
12	1 % Yb	?	?	Gezogen von K. Möller