



"The table below provides conversion factors (CF) experimentally determined on certified reference materials (CRM) by using digital PCR by at least three and up to four independent expert laboratories. The expanded uncertainty (U) estimated for each CF has been calculated to allow expressing dPCR results in mass fraction with a reliable uncertainty estimate."

See also : Corbisier, P. Emons, H. Towards metrologically traceable and comparable results in GM quantification. Anal Bioanal Chem (2019) 411: 7. <https://doi.org/10.1007/s00216-018-1457-0>

CRM	Species	Event	Transgene method	Endogene method	CF	U (k=2)	Zygoty
ERM®-BF419b	Beta vulgaris (sugar beet)	H71	QT-EVE-BV-001	QT-TAX-BV-013	0.48	0.05	Heterozygous / transgenic parent male
0208-A6	Brassica napus (oilseed rape)	T45	QT-EVE-BN-001	QT-TAX-BN-001	0.98	0.08	Homozygous
0304-B2	Brassica napus (oilseed rape)	GT73	QT-EVE-BN-004	QT-TAX-BN-001	0.92	0.10	Homozygous
1011-A	Brassica napus (oilseed rape)	MON88302	QT-EVE-BN-010	QT-TAX-BN-001	0.96	0.04	Homozygous
ERM®-BF434e	Brassica napus (oilseed rape)	73496	QT-EVE-BN-009	QT-TAX-BN-001	0.95	0.18	Homozygous
0306-F7	Brassica napus (swede-rape)	MS8	QT-EVE-BN-002	QT-TAX-BN-001	0.456	0.008	Hemizygous
0306-G6	Brassica napus (swede-rape)	RF3	QT-EVE-BN-003	QT-TAX-BN-001	0.907	0.022	Homozygous
0711-A3	Brassica napus (swede-rape)	MS1	QT-EVE-BN-005	QT-TAX-BN-001	0.523	0.029	Hemizygous
0711-B2	Brassica napus (swede-rape)	RF1	QT-EVE-BN-006	QT-TAX-BN-001	1.05	0.09	Homozygous
0711-C3	Brassica napus (swede-rape)	RF2	QT-EVE-BN-007	QT-TAX-BN-001	0.99	0.06	Homozygous
0711-D4	Brassica napus (swede-rape)	Topas 19/2	QT-EVE-BN-008	QT-TAX-BN-001	1.06	0.06	Homozygous
0210-A	Glycine max (soybean)	MON87705	QT-EVE-GM-003	QT-TAX-GM-009	0.96	0.07	Homozygous
0215-A	Glycine max (soybean)	MON87751	QT-EVE-GM-016	QT-TAX-GM-009	1.004	0.021	Homozygous
0311-A	Glycine max (soybean)	MON87708	QT-EVE-GM-012	QT-TAX-GM-009	1.00	0.10	Homozygous
0610-A4	Glycine max (soybean)	FG72	QT-EVE-GM-001	QT-TAX-GM-009	1.03	0.12	Homozygous
0707-B10	Glycine max (soybean)	A2704-12	QT-EVE-GM-004	QT-TAX-GM-009	0.974	0.028	Homozygous
0707-C6	Glycine max (soybean)	A5547-127	QT-EVE-GM-007	QT-TAX-GM-009	1.01	0.07	Homozygous
0809-A	Glycine max (soybean)	MON87701	QT-EVE-GM-010	QT-TAX-GM-009	0.95	0.05	Homozygous
0809-B	Glycine max (soybean)	MON87769	QT-EVE-GM-002	QT-TAX-GM-009	0.99	0.06	Homozygous
0906-B	Glycine max (soybean)	MON89788	QT-EVE-GM-006	QT-TAX-GM-009	0.98	0.07	Homozygous
0911-D	Glycine max (soybean)	CV127	QT-EVE-GM-011	QT-TAX-GM-009	1.01	0.11	not known
ERM®-BF410ep	Glycine max (soybean)	40-3-2	QT-EVE-GM-005	QT-TAX-GM-009	0.79	0.14	Homozygous
ERM®-BF425d	Glycine max (soybean)	356043	QT-EVE-GM-009	QT-TAX-GM-009	0.98	0.14	Homozygous
ERM®-BF426d	Glycine max (soybean)	305423	QT-EVE-GM-008	QT-TAX-GM-009	0.93	0.11	Homozygous
ERM®-BF432d	Glycine max (soybean)	DAS68416	QT-EVE-GM-013	QT-TAX-GM-009	1.17	0.19	Homozygous
ERM®-BF436e	Glycine max (soybean)	DAS44406	QT-EVE-GM-015	QT-TAX-GM-009	0.99	0.13	Homozygous
ERM®-BF437e	Glycine max (soybean)	DAS81419	QT-EVE-GM-014	QT-TAX-GM-009	0.85	0.10	Homozygous
0113-A	Gossypium hirsutum (cotton)	MON88701	QT-EVE-GH-010	QT-TAX-GH-018	1.09	0.11	Homozygous

CRM	Species	Event	Transgene method	Endogene method	CF	U (k=2)	Zygosity
0306-E2	Gossypium hirsutum (cotton)	LLCotton25	QT-EVE-GH-002	QT-TAX-GH-018	1.00	0.08	Homozygous
0804-B	Gossypium hirsutum (cotton)	MON1445	QT-EVE-GH-003	QT-TAX-GH-018	1.05	0.08	Homozygous
0804-C	Gossypium hirsutum (cotton)	MON531	QT-EVE-GH-004	QT-TAX-GH-018	0.99	0.11	Homozygous
0804-D	Gossypium hirsutum (cotton)	MON15985	QT-EVE-GH-005	QT-TAX-GH-018	0.96	0.08	Homozygous
0906-D	Gossypium hirsutum (cotton)	MON88913	QT-EVE-GH-007	QT-TAX-GH-018	1.03	0.07	Homozygous
1108-A5	Gossypium hirsutum (cotton)	GHB614	QT-EVE-GH-006	QT-TAX-GH-018	1.11	0.06	Homozygous
ERM®-BF422d	Gossypium hirsutum (cotton)	281-24-236	QT-EVE-GH-001a	QT-TAX-GH-018	0.99	0.17	Homozygous
ERM®-BF422d	Gossypium hirsutum (cotton)	3006-210-23	QT-EVE-GH-001b	QT-TAX-GH-018	1.02	0.18	Homozygous
ERM®-BF429c	Gossypium hirsutum (cotton)	T304-40	QT-EVE-GH-009	QT-TAX-GH-018	1.27	0.16	Homozygous
ERM®-BF440e	Gossypium hirsutum (cotton)	DAS81910	QT-EVE-GH-011	QT-TAX-GH-018	1.08	0.12	Homozygous
0306-I9	Oryza sativa (rice)	LLRICE62	QT-EVE-OS-002	QT-TAX-OS-017	0.84	0.13	Homozygous
0215-B	Zea mays (maize)	MON87411	QT-EVE-ZM-024	QT-TAX-ZM-002	0.60	0.04	Heterozygous / transgenic parent female
0216-A	Zea mays (maize)	MON87403	QT-EVE-ZM-025	QT-TAX-ZM-002	0.625	0.020	Heterozygous / transgenic parent female
0406-D	Zea mays (maize)	MON88017	QT-EVE-ZM-016	QT-TAX-ZM-002	0.54	0.06	Heterozygous / transgenic parent not
0407-B	Zea mays (maize)	GA21	QT-EVE-ZM-007	QT-TAX-ZM-002	0.35	0.06	Heterozygous / transgenic parent male
0411-D	Zea mays (maize)	5307	QT-EVE-ZM-002	QT-TAX-ZM-002	0.36	0.05	Heterozygous / transgenic parent male
0512-A	Zea mays (maize)	MON87427	QT-EVE-ZM-003	QT-TAX-ZM-002	0.58	0.05	Heterozygous / transgenic parent female
0709-A	Zea mays (maize)	MON87460	QT-EVE-ZM-005	QT-TAX-ZM-002	0.38	0.10	Heterozygous / transgenic parent not
0906-E	Zea mays (maize)	MON89034	QT-EVE-ZM-018	QT-TAX-ZM-002	0.58	0.04	Heterozygous / transgenic parent female
1208-A2	Zea mays (maize)	MIR162	QT-EVE-ZM-022	QT-TAX-ZM-002	0.58	0.06	Heterozygous / transgenic parent female
ERM®-BF411g	Zea mays (maize)	Bt176	QT-EVE-ZM-023	QT-TAX-ZM-002	0.69	0.08	Heterozygous / transgenic parent male
ERM®-BF412bk	Zea mays (maize)	Bt11	QT-EVE-ZM-015	QT-TAX-ZM-002	0.369	0.023	Heterozygous / transgenic parent male
ERM®-BF413gk	Zea mays (maize)	MON810	QT-EVE-ZM-020	QT-TAX-ZM-002	0.36	0.04	Heterozygous / transgenic parent male
ERM®-BF415f	Zea mays (maize)	NK603	QT-EVE-ZM-008	QT-TAX-ZM-002	0.51	0.04	Heterozygous / transgenic parent female
ERM®-BF416d	Zea mays (maize)	MON863	QT-EVE-ZM-009	QT-TAX-ZM-002	0.62	0.08	Heterozygous / transgenic parent female
ERM®-BF418d	Zea mays (maize)	1507	QT-EVE-ZM-010	QT-TAX-ZM-002	0.61	0.09	Heterozygous / transgenic parent female
ERM®-BF420c	Zea mays (maize)	3272	QT-EVE-ZM-019	QT-TAX-ZM-002	0.42	0.06	Heterozygous / transgenic parent male
ERM®-BF423d	Zea mays (maize)	MIR604	QT-EVE-ZM-013	QT-TAX-ZM-002	0.448	0.030	Heterozygous / transgenic parent male
ERM®-BF424d	Zea mays (maize)	DAS59122	QT-EVE-ZM-012	QT-TAX-ZM-002	0.34	0.05	Heterozygous / transgenic parent male
ERM®-BF433d	Zea mays (maize)	DAS40278	QT-EVE-ZM-004	QT-TAX-ZM-002	0.36	0.05	Heterozygous / transgenic parent male
ERM®-BF438e	Zea mays (maize)	VCO1981	QT-EVE-ZM-001	QT-TAX-ZM-002	0.48	0.05	Heterozygous / transgenic parent male
ERM®-BF439e	Zea mays (maize)	4114	QT-EVE-ZM-026	QT-TAX-ZM-002	0.66	0.09	Heterozygous / transgenic parent female

Version: 5 Data for CRMs marked in red is either new or has been updated