

CESTARO, L., TØNSBERG, T. & MUGGIA, L. 2016. Phylogenetic data and chemical traits characterize a new species in the lichen genus *Tephromela*. – *Herzogia* **29**: 383–402.

**Supplementary Table S1:** Information on alignments and selected models for the phylogenetic analyses (K80: Kimura 1980, HKY: Hasegawa et al. 1985, SYM: Zharkikh 1994, GTR: Rodríguez et al. 1990, TrN: Tamura & Nei 1993, TIM: Posada 2003, TPM: Kimura 1981).

Gene	Partition	Number of sequences	Number of sites	Model selected by AIC	Model used in MrBayes
ITSp	full dataset	244	655	SYM+ $\Gamma$	SYM+ $\Gamma$
ITSm	full dataset	160	523	TIM2+I+ $\Gamma$	GTR+I+ $\Gamma$
	full dataset	137	421	SYM+ $\Gamma$	SYM+ $\Gamma$
mcm7	1 <sup>st</sup> codon	“	141	TIM3+I	GTR+I
	2 <sup>nd</sup> codon	“	140	TPM3uf+ $\Gamma$	GTR+ $\Gamma$
	3 <sup>rd</sup> codon	“	140	HKY+ $\Gamma$	HKY+ $\Gamma$
	full dataset	131	436	TIM1ef+ $\Gamma$	SYM+ $\Gamma$
$\beta$ -tubulin	1 <sup>st</sup> codon	“	146	TIM1ef+I	SYM+I
	2 <sup>nd</sup> codon	“	145	TrN1ef+ $\Gamma$	SYM+ $\Gamma$
	3 <sup>rd</sup> codon	“	145	K80+ $\Gamma$	K80+ $\Gamma$