

ARTÍCULO:

***Valgothrombium paroense* sp. n.**
(Acari: Prostigmata: Microtrombidiidae) from Bhutan

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Valgothrombium paroense sp. n.
(Acari: Prostigmata: Microtrombidiidae) from
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Abstract:

Valgothrombium paroense sp. n. from Bhutan is described and illustrated.

Key words: Acari, Microtrombidiidae, *Valgothrombium paroense*, Bhutan

Taxonomy: *Valgothrombium paroense* sp. n.

***Valgothrombium paroense* sp. n. (Acari: Prostigmata: Microtrombidiidae) de Bhutan**

Resumen:

Se describe e ilustra *Valgothrombium paroense* sp. n. de Bhutan.

Palabras clave: Acari, Microtrombidiidae, *Valgothrombium paroense*, Bhutan.

Taxonomía: *Valgothrombium paroense* sp. n.

Introduction

The genus *Valgothrombium* Willmann, 1940, is currently represented by seven species based on larvae: *V. avae* Haitlinger, 2005, *V. mallorcensis* (Haitlinger, 2003), *V. melindae* Haitlinger, 2008, *V. natani* Haitlinger, 2005, *V. stuarti* (Baker, 1999), *V. tarnavense* (Feider, 1950) and *V. valgum* (George, 1909) (George, 1909; Feider, 1955; Wohltmann & Wendt, 1996; Baker, 1999; Haitlinger, 2003, 2005, 2008). In this paper *Valgothrombium paroense* sp. n. is described as the second species of the genus found in Asia.

Material and Methods

During a visit to Bhutan in May 2008 two larvae were collected from unidentified herbaceous plants in Paro (~40 km southwestern of Thimpu). These specimens were mounted on slides using Berlese's medium. Abbreviations and terminology were adapted after Haitlinger (2008). All measurements are given in micrometers (μm).

Holotype is deposited at the Museum of Natural History, Wrocław University (MNHU), Poland.

Results

Taxonomy

Microtrombidiidae Thor, 1935
Valgothrombium Willmann, 1940
Valgothrombium paroense sp. n.

Figs 1-7

TYPE MATERIAL. Holotype larva: Paro, Bhutan, 02-05-2008; leg. R. Haitlinger; (MNHU). Paratype: one larva (deformed), same locality and collector.

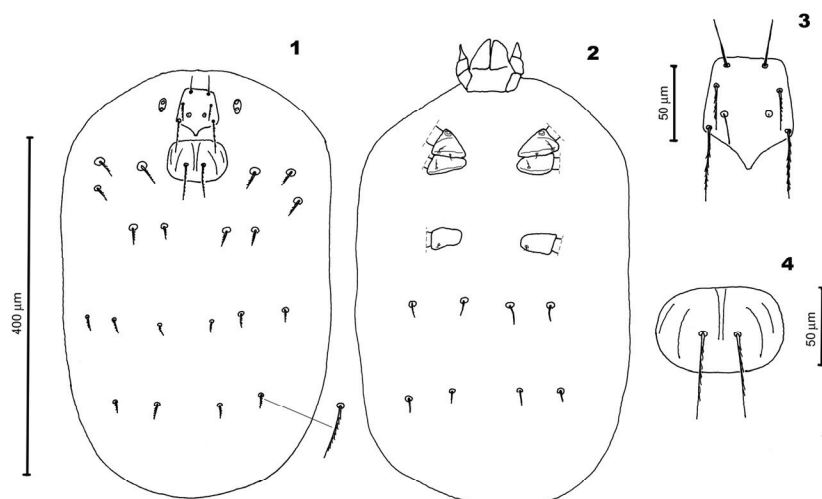
ETYMOLOGY. The species name refers to Paro, the type locality.

DIAGNOSIS. L 76, W 60, LSS 80-84, Tal 38-40, fD 20, fV 8.

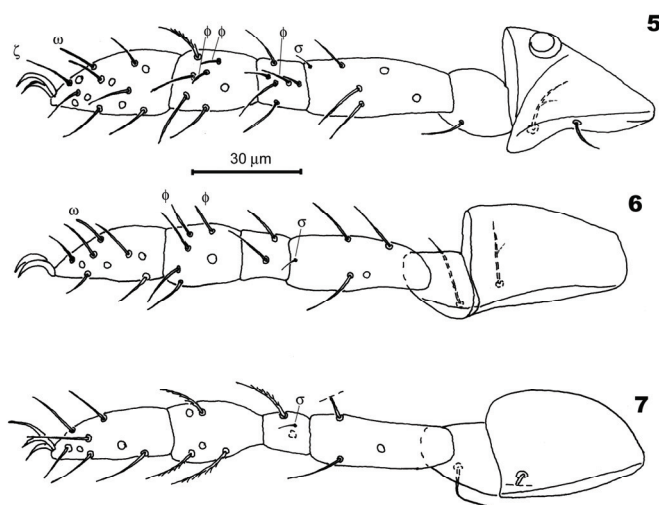
DESCRIPTION. *Idiosoma* longer than wide with 20 slightly barbed setae, each on small platelets. Two pairs of eyes on each side (Fig. 1). Scutum longer than wide with anterior border straight and posterior border with distinctly "nasus". Sensillae S and setae AM both nude, scutalae AL and PL slightly barbed (Fig. 3). Scutellum oval with two slightly barbed setae and two lines in median part and two pairs of lines in its lateral part (Fig. 4). *Ventral surface of idiosoma* with 8 pairs of very weakly barbed setae arranged 4-4 (Fig. 2). Coxae I with two setae (one of them bifurcate) (Fig. 5), coxae II with one weakly barbed setae and coxae III with one seta (da-

maged) (Figs 6, 7). *Gnathosoma* with nude palpfemur and palpgenu. Palptibia and palptarsus badly visible. *Leg lengths.* Leg I, 198 holotype, 208 paratype, II 194, 176, III 212, 216. *Ip* = 604, 600. *Setal formula.* Leg I: Ta 1 ω , 1 ζ , 12?N; Ti 2 ϕ , 1B, 4?N; Ge 1 σ , 3?N; Fe 1 σ , 5?N; Tr 1N; Cx 1N, 1B (Fig. 5). Leg II: Ta 1 ω , 8?N; Ti 2 ϕ , 4?N; Ge 2N; Fe 1 σ , 4N; Tr 1N; Cx 1B (Fig. 6). Leg III: Ta 8?N; Ti 3?B, 2?B; Ge 1 σ , 2B, Fe 3?N; Tr 1N; Cx 1?B (Fig. 7). Measurements are given in Table 1.

REMARKS. *V. paroense* sp. n. differs from *V. stuarti* in the shorter W (60 vs 67-81), AW (38-44 vs 55-62), PW (48 vs 63-72), AL (28 vs 40-48), SB (28-30 vs 42-46), LSS (80-84 vs 99-107) and fV (8 vs 10), from *V. mallorcensis* in the shorter SS (20-24 vs 28-32), the longer LSS (80-84 vs 64-78), HS (58-62 vs 42-48), Tal (38-40 vs 28-34) and IP (600-605 vs 550-586); from *V. natani* in the shorter DS (24-43 vs 38-56), AW (38-44 vs 42-52), PW (48 vs 52-56, ASB (38 vs 54, SS (20-24 vs 36-44) the longer PSB (38 vs 16) and fV arranged 4-4 vs 2-2-4-2; from *V. tarnavense* in the shorter HS (58-62 vs 81).SL (50 vs 63) and fD (20 vs 28); from *V. valgum* in the longer L (76 vs 54-56), LSS (80-84 vs 55), the shorter SB (28-30 vs 44), DS (24-43 vs 55-63), HS (58-62 vs 65-67) and vF (8 vs 6); from *V. avae* in the longer AL (28 vs 20), PSB (38 vs 24), the shorter LSS (80-84 vs 96), SS (20-24 vs 32), the shape of the scutellum (oval vs rectangular) and fV arranged 4-4 vs 2-2-2-2 and from *V. melindae* in the longer L (76 vs 68), W (60 vs 49), PSB (38 vs 25), LSS (80-84 vs 65), the shorter AL (28 vs 35), PL (46 vs 62), fD (20 vs 18) and fV (8 vs 12).



Figures 1-4. *Valgothrombium paroense* sp. n.: 1. idiosoma, dorsal view; 2. idiosoma and gnathosoma, ventral view; 3. scutum; 4. scutellum.



Figures 5-7. *Valgothrombium paroense* sp. n.: 5. leg I; 6. leg II; 7. leg III.

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Table 1Metric data for *Valgothrombium paroense* sp. n., larva. H – holotype, P – paratype.

	H	P		H	P
IL	508		SL	50	
IW	387		SS	20	24
AW	44	38	TaI	38	40
PW	48		TiI	24	28
AA	20	22	GeI	18	14
SB	30	28	FeI	46	50
MA	14		TrI	22	24
ISD	34		CxII	50	52
ASB	38		TaII	34	30
PSB	38		TiII	24	22
AM	28		GeII	18	12
Al.	28	28	FeII	48	44
PL	46		TrII	22	24
S	24		CxII	48	44
L	76		TaIII	38	40
W	60		TiIII	32	28
DS	24-43		GeIII	18	12
GL	62	52	FeIII	48	42
LSS	84	80	TrIII	22	24
HS	58	62	CxIII	54	50
PLN	34				