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[\[PDF \(450K\)\]](#) [\[References\]](#)**Anastomosis groups of *Rhizoctonia solani* causing brown patch of creeping bentgrass and Kentucky bluegrass in golf courses in Japan.**T. HAYAKAWA<sup>1)</sup>, M. HYAKUMACHI<sup>2)</sup>, T. TODA<sup>3)</sup>, S. YAGUCHI<sup>1)</sup>, M. KOBAYASHI<sup>1)</sup> and N. SASAKI<sup>1)</sup>

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**ABSTRACT**

One hundred and seventeen isolates of *Rhizoctonia solani* Kühn were obtained from creeping bentgrass [*Agrostis stolonifera* L. var. *palustris* (Huds.) Farw] and Kentucky bluegrass (*Poa pratensis* L.) with symptoms of brown patch disease on golf courses in Japan from 1997 through 2006. Based on colony morphology and restriction fragment length polymorphism (RFLP) analysis using the internal transcribed spacer region of ribosomal DNA (rDNA-ITS), 96 isolates (82.1%) were identified as *R. solani* AG-2-2 IIIB, and 21 isolates (18.0%) were *R. solani* AG-1 IB. On the basis of the results of this report, brown patch on creeping bentgrass is mainly caused by *R. solani* AG-2-2 IIIB nearly throughout Japan and on Kentucky bluegrass it is caused by *R. solani* AG-1 IB in the cool weather area in Japan.

**Key words:** brown patch, creeping bentgrass, Kentucky bluegrass, *Rhizoctonia solani* AG-2-2 IIIB, *Rhizoctonia solani* AG-1 IB

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