

INTERNATIONAL
STANDARD

ISO
5073

Third edition
2013-05-01

**Brown coals and lignites —
Determination of humic acids**

Charbons bruns et lignites — Dosage des acides humiques



Reference number
ISO 5073:2013(E)

© ISO 2013



COPYRIGHT PROTECTED DOCUMENT

© ISO 2013

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
4.1 Total humic acids	1
4.2 Free humic acid	2
5 Reagents	2
6 Apparatus	3
7 Sample	3
8 Procedure	3
8.1 Extraction of total humic acids	3
8.2 Extraction of free humic acid	3
8.3 Determination of humic acids in extracts	3
9 Expression of results	4
10 Precision of the method — Repeatability limit	4
11 Test report	5
Annex A (normative) Determination of the ratio of carbon content of humic acids of brown coals and lignites	6