# ISO 19699-1:2017-08 (E)

## Superabsorbent polymer - Sodium polyacrylate resin for absorbing blood - Part 1: Test methods

## Contents

Page


Foreword ..... iv

Introduction ..... v

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Test methods ..... 2
4.1 General ..... 2
4.2 Determination of amount of residual monomers ..... 2
4.3 Determination of volatile content ..... 3
4.4 Determination of pH ..... 3
4.5 Determination of particle size distribution ..... 3
4.6 Determination of bulk density ..... 3
4.7 Determination of whiteness ..... 3
4.8 Determination of simulated blood absorption capacity ..... 3
4.8.1 General principle ..... 3
4.8.2 Reagents ..... 3
4.8.3 Apparatus ..... 3
4.8.4 Sampling ..... 3
4.8.5 Procedure ..... 4
4.8.6 Calculation and expression of results ..... 4
4.9 Determination of simulated blood absorption rate ..... 5
4.9.1 General principle ..... 5
4.9.2 Reagents ..... 5
4.9.3 Apparatus ..... 5
4.9.4 Sampling ..... 5
4.9.5 Procedure ..... 5
4.9.6 Calculation ..... 6

Annex A (normative) Preparation of simulated blood ..... 7

Annex B (informative) Comparison of human blood and simulated blood absorption capacity of SAP ..... 9

Bibliography ..... 10