

ICS 07.080

C 04

# SZDB/Z

SZDB/Z 89-2014

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2014- 01-17

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animal germplasm

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animal germplasm bank

3.4

sample storage area

3.5

buffer room

laboratory biosafety

3.6

chemical safety

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cell line

3.8

propagation

3.9

metabonomics

3.10

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3.11

RNA later

RNA

RNAlater

3.12

DMEM

DMEM culture medium

mg/L

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4500 mg/L

1000

3.13

fixation of animal

3.14

vitrification freezing technology

3.15

cryoprotectant

3.16

noninvasive sampling

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nondestructive sampling

3.18

destructive sampling

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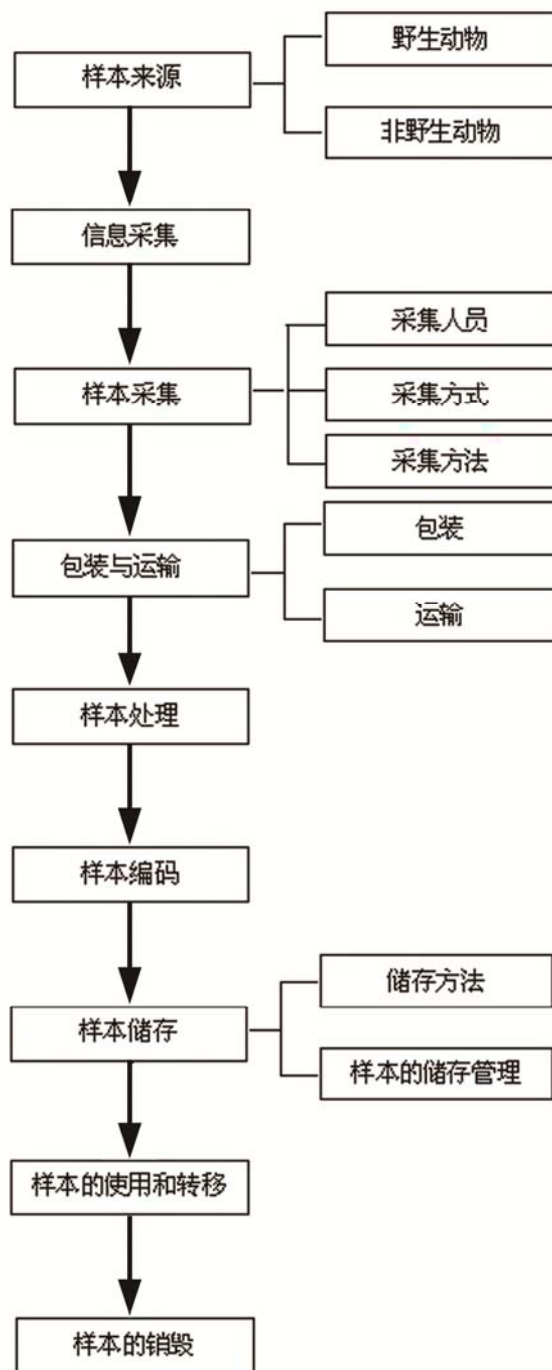
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  - [3] , 2012 [M]. 2  
 : . 2012:1-48.
  - [4] Asamoah-Baah, [M],3 . .2004:1-114
  - [5] Wong BY, Edward OW, Warren EJ. Tissue sampling methods and standards for vertebrate genomics [J]. Giga science, 2012, 1(8): 1-12.
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