

ABSTRACT

METHOD FOR ASSESSING PAIN CAUSED BY ADMINISTRATION OF DRUG
SOLUTION, AND METHOD FOR SELECTING DRUG SOLUTION

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ADMINISTRATION

In a method for assessing pain caused by the
administration of a drug solution, a rat (12) is provided,
the rat (12) is anesthetized by inhalation anesthesia, a
10 measurement electrode (24) is placed in the semitendinosus
muscle (12b) of the anesthetized rat (12), an injection
needle (18) is punctured under the plantar subcutaneous
(12a) of the anesthetized rat (12) while measuring the
myoelectric potential in the semitendinosus muscle (12b)
15 with the measurement electrode (24), a drug solution is
administered to the anesthetized rat (12) through the
injection needle (18) after a myoelectric response caused
by the punctuation of the injection needle (18) disappears,
and at least one of the measurement of the duration time
20 (T) of the myoelectric response caused by the
administration of the drug solution and the measurement of
the EMG intensity, which is produced by integrating
absolute values of myoelectric potentials during the period
between the onset of the myoelectric response by the
25 administration of the drug solution to the disappearance of

the myoelectric response, is carried out.

FIG. 2