

## Product datasheet

# P19 nuclear extract lysate ab14880

### Overview

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<b>Product name</b>	P19 nuclear extract lysate
<b>General notes</b>	Extracts have been quality control tested by Western blot and the Electrophoretic Mobility Shift Assay (EMSA).

### Properties

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<b>Mycoplasma free</b>	Yes
<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.90 Constituents: 0.75% Potassium chloride, 0.009% PMSF, 0.01% Magnesium chloride, 0.008% DTT, 0.48% HEPES, 20% Glycerol

<b>Background</b>	The P19 cell line is derived from an embryonal carcinoma induced in a C3H/He strain mouse. The pluripotent P19 cells can be induced to differentiate into neuronal and glial cells in the presence of retinoic acid. Aggregates of P19 cells differentiate into cardiac and skeletal muscle in the presence of dimethyl sulfoxide (DMSO). In the presence of both retinoic acid and DMSO cells develop as if exposed to retinoic acid only. Cells are therefore used in differentiation studies and to study mechanisms of birth defects due to inappropriate apoptosis and retinoid signalling.
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