



# Alex Stewart International

**ANALYSIS REPORT**  
**Ref. No. UJ25286-3**

**ORIGINAL**

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This is to certify that, at the request of Messrs. **OJSC "Hydrometallurgical Plant"** we have performed laboratory analysis of the under mentioned commodity:

**Commodity** : MONO POTASSIUM PHOSPHATE  
**Date of laboratory analysis** : 14.06.2019  
**Batch number** : 28  
**Production date** : January 2019

## **LABORATORY ANALYSIS RESULTS**

Laboratory analyses were performed for provided sample according to requirements and following results were obtained:

<b>PARAMETER</b>	<b>TEST METHOD</b>	<b>TEST RESULTS</b>
Mass share of Mono potassium phosphate (as $\text{KH}_2\text{PO}_4$ ), %	GOST 20851.3	99.90
Mass share of phosphates as $\text{P}_2\text{O}_5$ , %	GOST 20851.2	52.30
Mass share of potassium as $\text{K}_2\text{O}$ , %	GOST 20851.3	34.60
Mass share of water insoluble matters, %	GOST 3771	<0.001
Mass share of water, %	GOST 20851.4	0.083
Mass share of fluorides (F), %	GOST 24596.7	0.0096
Mass share of chlorides (Cl), %	GOST 24596.7	<0.01
Mass share of arsenic (As), %	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of lead (Pb), %	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of cadmium (Cd), %	Inductively coupled plasma emission spectroscopy	<0.00005
Mass share of mercury (Hg), %	Atomic absorption analysis	<0.00001
Mass share of chromium (Cr), mg/kg	Inductively coupled plasma emission spectroscopy	<0.0001
Mass share of selenium (Se), mg/kg	Inductively coupled plasma emission spectroscopy	<0.0003
Mass share of sulphur (S), mg/kg	Inductively coupled plasma emission spectroscopy	0.0020
Rate of activity of hydrogen ions in 0.1% solution, pH	P.4.13 Technical requirements	4.60

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Mass share of particles, % <ul style="list-style-type: none"><li>- Above 1 mm</li><li>- 0.63 – 1 mm</li><li>- 0.4 – 0.63 mm</li><li>- 0.25 – 0.4 mm</li><li>- 0.16 – 0.25 mm</li><li>- 0.1 – 0.16 mm</li><li>- Below 0.1 mm</li></ul>	Gravimetric analysis	1.50 16.58 24.97 32.65 18.63 4.40 1.27
Turbidity 20 %, NTU	P.4.13 Technical requirements	1.8
Solubility at 20 °C, g/dm <sup>3</sup>	Gravimetric analysis	230

24<sup>th</sup> June, 2019

**ALEX STEWART INTERNATIONAL**

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